



# 液晶显示器

底板      **LS20BRCS**  
型号      **204Ts**

# 维 修

# 手 册

液晶显示器

时尚特点



- 采用 MFM UI
- 采用 Magic Color Pro
- 采用 HDCP/PIP
- 支持 Magic Tune 4.0
- 支持模拟/数字/视频/S-Video



三星电子

<http://www.wjel.net>

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/或国内法律的惩罚。

三星电子有限公司



P/N: BH82-00133E-00

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# 1 注意事项

遵循这些安全、维修和ESD注意事项以防损坏并防止电击等隐患。

## 1-1 安全注意事项

### 1-1-1 警告

1. 为了持续保持安全，不要企图修改电路板。
2. 在维修之前，断开交流电源和直流电源插口。

### 1-1-2 维修液晶显示器

1. 在维修液晶显示器时，从交流插座拔下交流电线
2. 维修技术人员配有在任何时候都可以使用的准确电压表，这一点至关重要。定期检查电压表的校准情况。

### 1-1-3 火灾和电击危险

在将显示器返还给用户之前，进行以下安全检查：

1. 检查每根导线外皮，确信导线没有受到挤压且硬件没有被置于显示器底板和其它金属部件之间。
2. 检查所有保护装置，如非金属控制旋钮、绝缘材料、机箱背面、调节和机箱盖或护罩、绝缘电阻-电容器网络、机械隔离器等。
3. 漏泄电流热检查（图1-1）：

**警告：**在测试期间，不要使用隔离变压器。

使用符合美国国家标准协会（ANSI C101.1），电器漏泄电流和保险商实验所（UL出版物UL1410,59.7）的漏泄电流测试仪或计量系统。

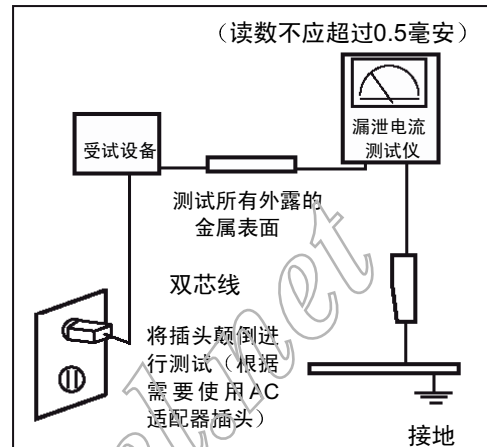


图1-1 漏泄电流测试电路

4. 在完全重新组装本机时，将交流电源线直接插入到120V交流插座上。首先将本机的交流开关置于打开的位置，然后置于关闭的位置，测量已知接地点（金属水管、管道等）和所有外露金属部件之间的电流，包括金属机箱、螺钉头和控制轴。测量的电流不应超过0.5毫安。把电源插头的插脚在交流插座中调换过来并重复试验。

### 1-1-4 产品安全通知

一些电气和机械部件具有特殊的安全相关特性，这些特性通常不太明显，不易通过目视检查察觉。这些部件所提供的保护作用无法通过更换具有更高电压、瓦数等额定值的部件获得。具有特殊安全特性的部件在原理图和零件清单中通过△标出。不具有与推荐的备件相同的安全特性的更换件可能产生电击、火灾和/或其它危险。应持续审查产品的安全并根据需要，发布新的指示。

## 1 注意事项

### 1-2 维修注意事项

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**警告：** 安装极性错误的电解电容器会发生爆炸。

**小心：** 维修本维修手册中叙述的设备前，请阅读并遵循本手册中“安全注意事项”一节。

**注意：** 如果无法预见的情况在维修注意事项和安全注意事项之间造成冲突，要遵守安全注意事项。

#### 1-2-1通用维修注意事项

1 在准备进行以下操作之前，要将本机的交流电源线从交流电源拔下来并断开直流电源插口的连接：

(a)拆除或重新安装任何部件或组件，(b)拔下印刷电路板插头或连接器，(c)连接与电解电容器并联的所有测试部件。

2 为了安全起见，一些部件被抬高，高过印刷电路板。有时，使用绝缘管或胶带。有时，内部接线被夹起来，目的是为了防止与致热部件接触。把所有此类元件重新安装到其原来的位置。

3 在维修后，要检查螺钉、部件和接线是否正确地重新安装。要保证维修过的部件周围区域没有损坏。

4 检查交流插头的插片和易碰到的导电部件（如金属盘、输入端子和耳机塞孔）之间的绝缘情况。

5 绝缘检查步骤：由交流电源断开电源线并把电源开关转到打开的位置。将绝缘电阻表（500伏）连接到交流插头的插片上。

交流插头的各插片和易碰到的导电部件之间的绝缘电阻（见上面）应大于1兆欧。

6 在连接正极性导线之前，应把测试仪接地线接到仪表底板上；始终最后拆除仪表的接地线。

### 1-3 静电敏感器件 (ESD) 注意事项

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一些半导体（固态）设备很容易被静电损坏。此类部件一般被称为静电敏感器件（ESD）。典型的ESD器件有集成电路和一些场效应晶体管。下列方法会减少静电造成的部件损坏事件的发生率。

1. 在处理任何半导体部件或组件之前，要立即通过接触已知的接地点，将静电从身体上放掉。另外一种办法是，戴上放电的腕带装置。为了避免电击的危险，在给显示器加电之前，务必取下腕带。

2. 在拆除配有ESD的组件后，将其放到导电平面（如铝箔）以防积聚静电。

3. 不要使用带有氟里昂的化学品。这会产生足以破坏ESD的电荷。

4. 仅使用接地的烙铁焊接或焊开ESD。

5. 仅使用防静电除焊装置。一些不属于“防静电”类的除焊装置可能产生足以破坏ESD的电荷。

6. 在准备安装之前，不要将备用ESD由保护包装中取出。绝大多数备用ESD均包装有导线，这些导线通过导电泡沫、铝箔或其它导电材料短接。

7. 即将由备用ESD导线上除去保护材料之前，应使保护材料与安装器件的底板和电路组件接触。

**注意：不要给底板或电路加电并遵守其它安全注意事项。**

8. 在处理没有包装的备用ESD时，要尽量减少身体的运动。一些运动如摩擦衣服或由铺地毯的地板上抬起脚都会产生足以破坏ESD的静电。

## 1 注意事项

### 1-4 安装注意事项

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1. 为了保障安全，搬运产品需要两人以上。
2. 让电源线远离散热设备，否则外壳熔化可能导致起火或触电。
3. 不要将产品置于通风不良的区域，如书架或壁橱。内部温度升高可能造成起火。
4. 当把外部天线接到产品上时，要弯曲内部天线。该措施旨在防止天线受潮。否则，可能造成起火或触电。
5. 必须保证在重新放置产品之前关闭电源并从插座拔下电源线。如果天线或外部连接器未完全插入，还应检查天线或外部连接器。天线损坏可能造成起火或触电。
6. 让天线远离高压线，并将天线安装牢靠。与高压线接触或天线掉下来可能造成起火或触电。
7. 当安装产品时，在产品与墙壁之间留下足够的空间（10cm），以便通风。产品内温度上升可能造成起火。

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1 注意事项

## 备忘录

<http://www.wjel.net>

## 14 参考信息

### 14-1 技术术语

#### -TFT-LCD

(薄膜晶体管液晶显示器)

ADC (模数变换器)

这是将模拟信号转换为数字信号的电路。

#### -PLL (锁相回路)

在进行模数变换时,设备使时钟同步 HSYNC 与视频时钟同步。

#### -变换器

向液晶显示屏灯供电的设备,该设备产生约 1,500~2,000V。

#### -SMPS (切换模式电源)

切换模式电源。该设计技术用于通过开/关逐步升高/降低输入供电。

#### -FRC (帧速控制器)

改变屏幕上一秒内显示的图像帧数的技术。

实际上,TFT-LCD 屏要求每秒 60 帧。

因此,需要该技术将输入图像转为 60 帧,与输入帧数无关。

#### -图像换算器

将不同的输入分辨率转换为其他分辨率(例如 640\*480 转为 1024\*768)的技术。

#### -自动配置 (自动调节)

这是按下一键即将显示器调到最佳状态的算法。

#### -OSD (屏幕显示)

屏幕显示,客户可用该项轻松控制屏幕。

#### -图像锁定

该项系指在液晶显示器上进行“精细调节”,功能有“精细”和“粗糙”。

#### -精细

“精细”调节用于通过控制相差调节可见度。

#### -粗糙

通过用视频时钟和 PLL 时钟调谐,进行调节。

#### -DVI (数字视频接口)

该项为与显示技术无关的视频数据类型提供高速数字连接。该接口主要是为了在计算机和显示设备之间提供接口。

#### -L.V.D.S. (低压差分信令)

一种数字传输方法。可用于从主 PBA 传输到显示屏。

#### -DVI (数字视频接口)

该项为与显示技术无关的视频数据类型提供高速数字连接。该接口主要是为了在计算机和显示设备之间提供接口。

#### -T.M.D.S

(最小过渡差分信令)

一种数字传输方法。可用于从视频卡传输到主 PBA。

#### -DDC (显示数据通道)

该项是主机和相关设备之间的通信方法。在计算机和显示器之间可即插即用。

#### -EDID

扩展显示识别数据 PC 可通过与 PC 和显示器通信的 DDC 线路将显示器信息识别为产品数据、产品名称、显示模式、系列号和信号源等等。

### -点距

显示器上的图像由红色、绿色和蓝色点组成。点越近，分辨率越高。相同颜色的两点之间的距离被秒为“点距”。单位：mm

### -竖直频率

每秒必须对屏幕重画几次，以便产生和显示供用户观看的图像。每秒重复频率被称为竖直频率和刷新速率。单位：Hz

例如：如果相同的光每秒重复 60 次，该项将被视为 60Hz.

### -水平频率

水平扫描连接屏幕右边至左边的一行的时间被称为水平周期。水平周期的倒数被称为水平频率。单位：kHz

### -隔行扫描和非隔行扫描方法

从上至下依次显示屏幕水平行被称为非隔行扫描方法，而依次显示奇数行然后显示偶数行被称为隔行扫描方法。非隔行扫描方法用于大多数显示器，以保证图像清晰。隔行扫描方法与电视中采用的相同。

### -即插即用

该功能通过允许计算机和显示器自动交换信息来向用户提供最佳质量的屏幕画面。本显示器遵循即插即用功能的国际标准 VESA DDC。

### -分辨率

用于构成屏幕图像的水平点和垂直点数被称为“分辨率”。该数表示显示精度。因屏幕上可显示更多的图像信息，所以高分辨率适用于执行多项任务。

**示例：**如果分辨率为 1280×1024，系指屏幕是由 1280 个水平点（水平分辨率）和 1024 个垂直点（垂直分辨率）构成的。

### S-Video

“超级视频”的缩写。S-Video 允许多达 800 行的水平分辨率，可以播放优质图像。

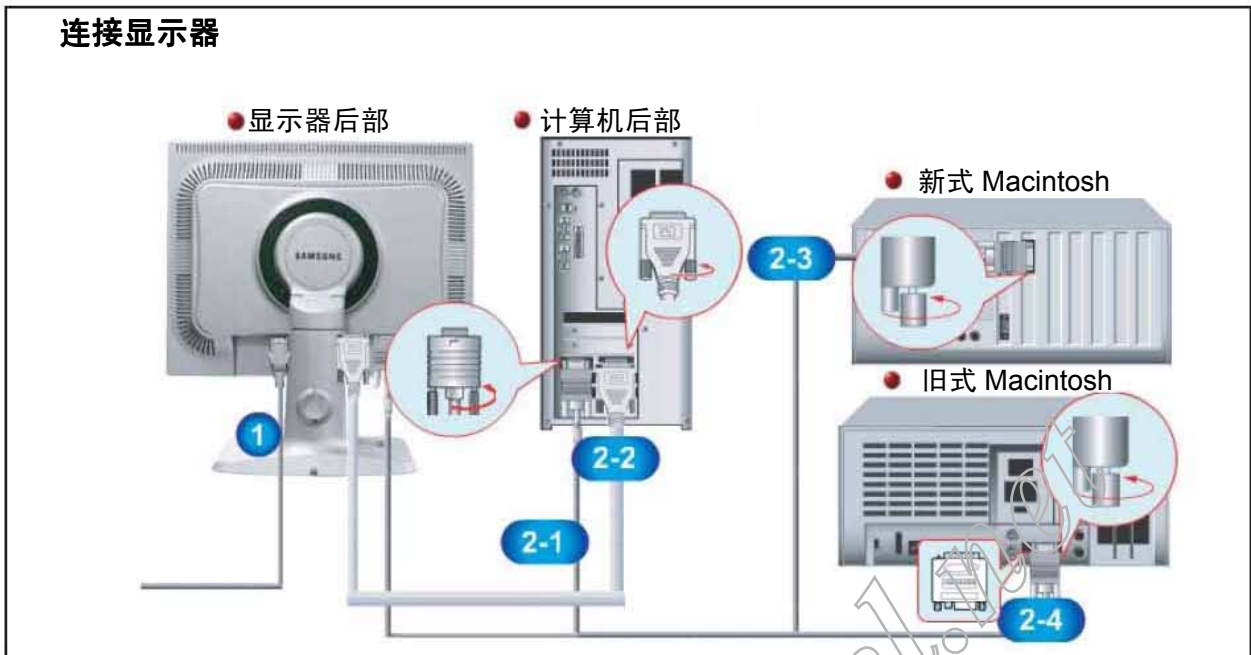
### -外部设备输入

外部设备输入指从录像机、摄录一体机和 DVD 放像机等电视广播之外的外部视频设备输入的视频。

### -DVD

兼具 CD 和 LD 的优点，从而实现高分辨率/质量，使用户可以观看到更清晰的图像的一种数字磁盘技术。





1. 将显示器的 DC 适配器接到显示器背面的电源端口上。将显示器的电源线插入旁边的插口上。
- 2-1. 使用视频卡上的 D-sub（模拟）连接器。  
把信号电缆接到显示器背面的 15 针、D-sub 连接器上。



- 2-2. 使用视频卡上的 DVI（数字）连接器。  
将 DVI 电缆接到显示器背面的 DVI 端口上。



- 2-3. 连接到 Macintosh 上。  
使用 D-SUB 连接电缆将显示器接到 Macintosh 计算机上。
- 2-4. 如果是旧式 Macintosh，需要使用特殊 Mac 适配器连接显示器。

3. 打开计算机和显示器。如果显示器显示图像，则安装完成。

-如果同时将 D-Sub 和 DVI 电缆连接到一台计算机上，则可能显示空白屏幕，这取决于正在使用的视频卡类型。

-如果使用 DVI 连接器正确连接显示器，但出现空白屏幕，请检查显示器状态是否设为模拟。按下电源按钮，仔细检查显示器的输入信号源。

## 14-2 连接其它设备

-不必断开 PC，使用者即可将本显示器接到 DVD 放像机、录像机或摄录一体机等输入设备上。

-显示器背面的配置可能随产品而异。

### 1) 连接 AV 设备

-显示器有 AV 连接端子，用于连接 DVD、录像机或摄录一体机等 AV 输入设备上。

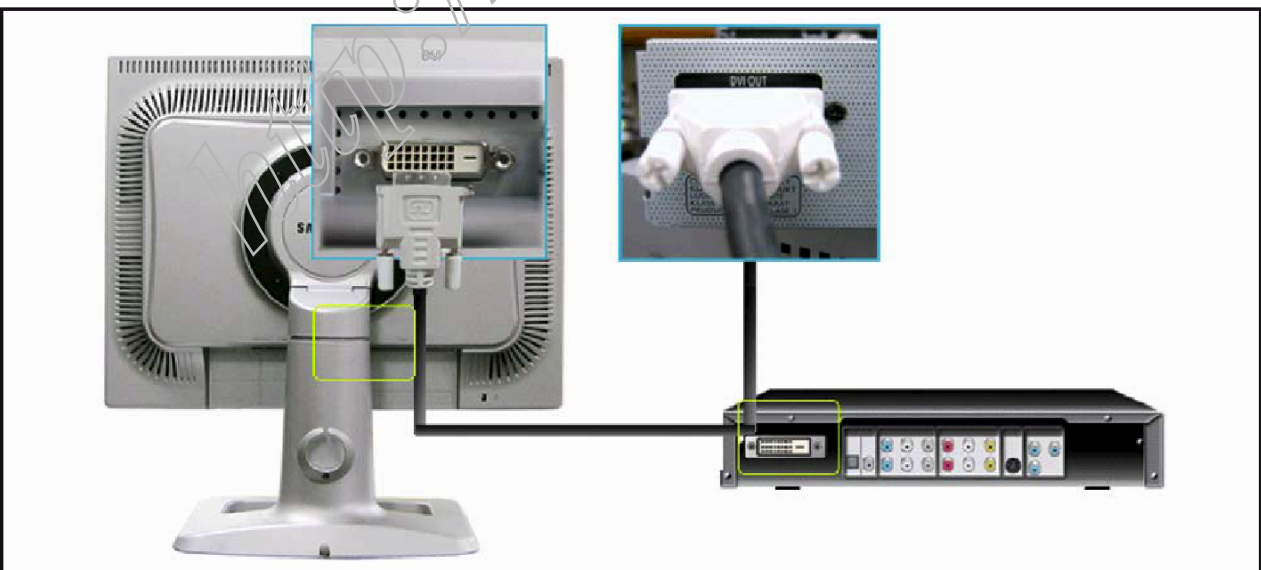
只要打开显示器，即可接收 AV 信号。



1. 使用 C-Video 或 S-Video 电缆将 DVD、录像机或摄录一体机等输入设备连接到显示器的 C-Video 或 S-Video 端子上。
2. 然后，插入 DVD 光盘或磁带，启动 DVD、录像机或摄录一体机。
3. 使用来源列表选择视频或 S-Video。

### 2) 连接数字 DVD

-显示器有 DVI 连接端子，用于连接 DVI 输入设备数字 DVD。



1. 使用 DVI 电缆将数字 DVD 等输入设备连接到显示器的 DVI 端子上。
2. 然后，插入 DVD 光盘启动 DVD。
3. 使用来源按钮选择“数字”。

## 14-3 管脚配置

管脚编号	同步类型	15 针 D-sub 信号电缆连接器		
		单独分开	复合	绿色同步
1		红色	红色	红色
2		绿色	绿色	绿色+水平/竖直同步
3		蓝色	蓝色	蓝色
4		GND	GND	GND
5		DDC 返回 (GND)	DDC 返回 (GND)	DDC 返回 (GND)
6		GND 红色	GND 红色	GND 红色
7		GND 绿色	GND 绿色	GND 绿色
8		GND 蓝色	GND 蓝色	GND 蓝色
9		DDC 电源输入(+5V)	DDC 电源输入 (+5V)	DDC 电源输入 (+5V)
10		自动光栅	自动光栅	自动光栅
11		GND	GND	GND
12		Bi-Dr 数据 (SDA)	Bi-Dr 数据 (SDA)	Bi-Dr 数据 (SDA)
13		水平同步	水平/竖直同步	未用
14		竖直同步	未用	未用
15		DDC 时钟 (SCL)	DDC 时钟 (SCL)	DDC 时钟 (SCL)

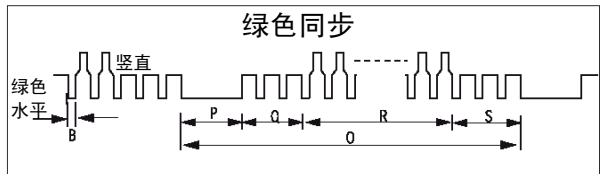
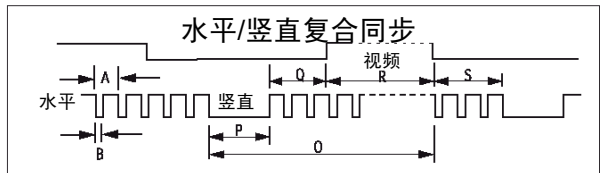
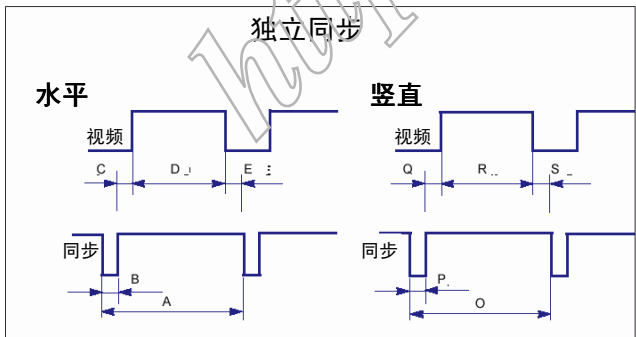
管脚编号	同步类型	24 针 DVI-D		
1		Rx2-	13	未连接
2		Rx2+	14	+5V_M
3		GND	15	自动光栅
4		未连接	16	+5V_M
5		未连接	17	Rx0-
6		DDC 时钟 (SCL)	18	Rx0+
7		DDC 数据 (SDA)	19	NC
8		NC	20	未连接
9		Rx1-	21	未连接
10		Rx2+	22	NC
11		NC	23	RxC+
12		未连接	24	RxC-

### 14-4 同步图

-维修手册中本章叙述计算机行业公认为计算机生成的视频信号标准的同步情况。

表 2-1 同步图

模式	IBM		VESA							
	VGA2/70 Hz 720 x 400	VGA3/60 Hz 640 x 480	640/75 Hz 640 x 480	800/60Hz 800 x 600	800/75 Hz 800 x 600	1024/60 Hz 1024 x 768	1024/75 Hz 1024 x 768	1280/60Hz 1280 x 1024	1280/75 Hz 1280 x 1024	1600/60Hz 1600 x 1200
同步										
fH (kHz)	31.469	31.469	37.500	37.879	46.875	48.363	60.023	63.981	79.975	75.000
A 微秒	31.777	31.778	26.667	26.400	21.333	20.677	16.660	11.852	12.504	13.333
B 微秒	3.813	3.813	2.032	3.200	1.616	2.092	1.219	1.037	1.067	1.185
C 微秒	1.589	1.589	3.810	2.200	3.232	2.462	2.235	2.296	1.837	1.877
D 微秒	26.058	26.058	20.317	20.000	16.162	15.754	13.003	9.259	9.481	9.877
E 微秒	0.318	0.318	0.508	0.000	0.323	0.369	0.203	0.000	0.119	0.395
fV (Hz)	70.087	59.940	75.000	60.317	75.000	60.004	75.029	60.020	75.025	60.000
O 毫秒	14.268	16.683	13.333	16.579	13.333	16.666	13.328	16.005	13.329	16.667
P 毫秒	0.064	0.064	0.080	0.106	0.064	0.124	0.050	0.047	0.038	0.040
Q 毫秒	0.858	0.794	0.427	0.607	0.448	0.600	0.466	0.594	0.475	0.613
R 毫秒	13.155	15.761	12.800	15.840	12.800	15.880	12.795	15.630	12.804	16.000
S 毫秒	0.191	0.064	0.027	0.0261	0.021	0.062	0.017	0.016	0.013	0.013
时钟频率 (MHz)	28.322	26.175	31.500	40.000	49.500	75.000	78.750	108.00	135.000	162.000
极性										
水平同步	负	负	负	正	正	负	正	正	正	正
竖直同步	正	负	负	正	正	负	正	正	正	正
备注	独立	独立	独立	独立	独立	独立	独立	独立	独立	独立



A: 总行时	B: 水平同步宽度	O: 总帧时	P: 竖直同步宽度
C: 后沿	D: 有效时间	Q: 后沿	R: 有效时间
E: 前沿		S: 前沿	

## 14-5 预设同步模式

-如果从计算机传输的信号与下列预设同步模式相同，则自动调节屏幕。但是，如果信号有所不同，当电源LED指示灯亮时，屏幕可能空白。参照视频卡手册，并如下所述调节屏幕。

表 1.预设同步

显示模式	水平频率 (kHz)	竖直频率 (Hz)	像素时钟 (MHz)	同步极性(水平/竖直)
MAC,640×480	35.000	66.667	30.240	-/-
MAC,832×624	49.726	74.551	57.284	-/-
IBM,640×350	31.469	70.086	25.175	+/-
IBM,640×480	31.469	59.940	25.175	-/-
IBM,720×400	31.469	70.087	28.322	-/+
VESA,640×480	37.500	75.000	31.500	-/-
VESA,640×480	37.861	72.809	31.500	-/-
VESA,800×600	35.156	56.250	36.000	+,-/+,-
VESA,800×600	37.879	60.317	40.000	+/+
VESA,800×600	46.875	75.000	49.500	+/+
VESA,800×600	48.077	72.188	50.000	+/+
VESA,1024×768	48.363	60.004	65.000	-/-
VESA,1024×768	56.476	70.069	75.000	-/-
VESA,1024×768	60.023	75.029	78.750	+/+
VESA,1280×1024	63.981	60.020	108.00	+/+
VESA,1280×1024	79.976	75.025	135.00	+/+
VESA,1600×1200	75.000	60.000	162.00	+/+

### 水平频率

水平扫描连接屏幕右边至左边的一行的时间被称为水平周期。水平周期的倒数被称为水平频率。单位：kHz

### 竖直频率

与荧光灯一样，为了向用户显示图像，屏幕必须每秒多次重复相同的图像。重复的频率被称为竖直频率或刷新速率。单位：Hz

## 14-6 屏面说明

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
SEC	LT140X1-002	BN07-00004A	SA	BN68-00239H	-
SEC	LT150XS-L01	BN07-00009A	SB		-
SEC	LT150XS-L01-B	BN07-00022A	SC		-
SEC	LTM150XS-L02	BN07-00005A	SD		-
SEC	LT181E2-132	BN07-00001A	SE		-
SEC	LT150XS-T01	BN07-00010A	SF		-
SEC	LTM181E3-132	BN07-00019A	SG		-
SEC	LT170E2-131	BN07-10001D	SH		-
SEC	LT181E2-131	BN07-10001E	SJ		-
SEC	LTM170E4-L01	BN07-00018A	SK		-
SEC	LTM240W1-L01	BN07-00015A	SL		-
SEC	LTM213U3-L01	BN07-00016A	SM		-
SEC	LTM150XH-L01	BN07-00026A	SN		-
SEC	LTM150XH-L03	BN07-00027A	SP		-
SEC	LTM150XS-L01	BN07-00032A	SQ		DELL(ZPD)
SEC	LTM181E4-L01	BN07-00034A	SR		PVA
SEC	LTM170EH-L01	BN07-00036A	SS		TN
SEC	LTM170E5-L01	BN07-00037A	SU		PVA
SEC	LTM150XH-L11	BN07-00041A	SV		-
SEC	LTM213U4-L01	BN07-00039A	SW		PVA
SEC	LTM150XH-L01(ZPD)	BN07-00045A	SX		ZPD
SEC	LTM150XH-L04	BN07-00046A	SY		New panel with high brightness
SEC	LTM170W1-L01	BN07-00047A	SZ		Panel for TV
SEC	LTM150XH-L06	BN07-00053A	EA		Panel for TV/ High luminance for 450cd _ SONY&EOS Team Panel for TV
SEC	LTM153W1-L01	BN07-00054A	EB		Use NIKE MODEL
SEC	LTM170EH-L05	BN07-00055A	EC		Panel EOS proj. for high brightness of 17" EH-L05
SEC	LTM170E5-L03	BN07-00056A	ED		Dell 1702FP pro. E4. EH mechanical Compatible
SEC	LTM190E1-L01	BN07-00057A	EE		DELL 1900 FP
SEC	LTM181E5-L01	BN07-00061A	EF		18" narrow bezel GH18PS
SEC	LTM150XP-L01	BN07-00065A	EG		AMLCD PVA PANEL
SEC	LTM240W1-L02	BN07-00062A	EH		Panel for 15" Wide TV
SEC	LTM170EU-L01	BN07-00071A	EJ		Slim design, TN
SEC	LTM170E5-L04	BN07-00072A	EK		E5-L04 6 bits FRC... for IBM
SEC	LTA220W1-L01	BN07-00074A	EL		Panel for 22" TV
SEC	LTM170E6-L02	BN07-00075A	EM		AMLCD Narrow & slim design 17" PVA mode
SEC	LTM170W1-L01	BN07-00082A	EN		LTM170W1-L01 ZPD panel
SEC	LTM170EH-L01	BN07-00080A	EP		LTM170EH-L01 ZPD panel
SEC	LTM170E5-L01	BN07-00081A	EQ		LTM170E5-L01 ZPD panel
SEC	LTM170EH-L05	BN07-00083A	ER		LTM170EH-L05 ZPD panel
SEC	LTM170E5-L03	BN07-00084A	ES		LTM170E5-L03 ZPD panel
SEC	LTM170EU-L01	BN07-00085A	ET		LTM170EU-L01 ZPD panel
SEC	LTM170E5-L04	BN07-00086A	EU		LTM170E5-L04 ZPD panel
SEC	LTM170E6-L02	BN07-00087A	EV		LTM170E6-L02 ZPD panel
SEC	LTM150XH-L06	BN07-00091A	EW		Color coordinates change for LCD TV
SEC	LTM153W1-L01	BN07-00092A	EX		AMLCD WIDE 15",9/10
SEC	LTM170W1-L01	BN07-00100A	EY		Color Coordinates change code management
SEC	LTM170EH-L05	BN07-00097A	EZ		LTM170E5-L05 Color Coordinates Change Panel Code
SEC	LTA400W1-L01	BN07-00109A	S1		PANEL of AMLCD 40" TV
SEC	LTM153W1-L01	BN07-00110A	S2		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM150XH-L06	BN07-00111A	S3		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170W1-L01	BN07-00112A	S4		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM170EH-L05	BN07-00113A	S5		Color coordinates change 0.280/0.290, 10000k & ZPD Panel
SEC	LTM220W1-L01	BN07-00114A	S6		ZPD Panel for AMLCD 22" TV
SEC	LTM150XH-L06	BN07-00117A	S7		ZPD Panel code

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
SEC	LTM153W1-L01	BN07-00118A	S8		ZPD Panel code
SEC	LTM170WP-L01	BN07-00119A	S9		PVA Panel for NIKE
SEC	LTM213U4-L01	BN07-00039A	E1		21.3" NARROW
SEC	LTA260W1-L01	BN07-00121A	E2		VENUS
SEC	LTA220W1-L01	BN07-00074B	E3		"Panel B-level panel code for 22"" TV Panel "
SEC	LTA320W1-L01	BN07-00108A	E4		"Panel for AMLCD 32"" TV"
SEC	LTM213U4-L01	BN07-00124A	E5		NARROW BEZEL 21 " PANEL
SEC	LTM170E6-L04	BN07-00129A	E6		"HIGHLAND 17"" LOW PANEL (Panel only for TCO03)"
SEC	LTM190E1-L01	BN07-00088A	E7		LTM190E1-L01 ZPD panel
SEC	M150X4-L06	BN07-00137A	E8		15" Narrow & Slim panel
SEC	LTA170V1	BN07-00139A	E9		"17"" Panel for Muse 4:3 VGA TV"
SEC	LTM190E1-L02	BN07-00128A	E10		"New Panel from AMLCDI, Specification : 6bit Driver IC"
SEC	LTM170EX-L01	BN07-00143A	E11		"Development new Panel from AMLCD"
SEC	LTM170E8-L01	BN07-00144A	E12		"Development new Panel from AMLCD"
SEC	LTM170E6-L04	BN07-00129B	E13		"ZPD panel for AMLCD (Panel only for TCO03)"
SEC	LTA320W1-L02	BN07-00108B	E14		"Creat B-level Panel code for AMLCD 32"" TV"
SEC	LTM190E1-L03	BN07-00151A	E15		"Development new 19"" Panel form AMLCD (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134A	E16		"AMLCD 24"" panel development"
SEC	LTM190E1-L02	BN07-00128B	E17		"New Panel from AMLCD, Specification : 6bit Driver IC(ZPD)"
SEC	LTM190E4-L01	BN07-00145A	E18		"AMLCD 24"" new panel development"
SEC	LTM170E8-L01	BN07-00158A	E19		"ZPD code derivation"
SEC	LTM170EX-L01	BN07-00159A	E20		"ZPD code derivation"
SEC	LTM190E1-L03	BN07-00151B	E21		"Creat new panel code for AMLCD 19"" (Panel only for TCO03)"
SEC	LTA460H1-L01	BN07-00157A	E22		"creat panel code for AMLCD 46"" TV "
SEC	LTM170EU-L11	BN07-00160A	E23		"creat new panel code for AMLCD 17"" (Panel only for TCO03)"
SEC	LTM240W1-L03	BN07-00134B	E24		"24"" panel ZPD code derivation"
SEC	LTM190E4-L01	BN07-00145B	E25		"AMLCD 19"" ZPD Panel code derivation"
SEC	LTM240W1-L03	BN07-00134B	E26		"24"" panel ZPD code derivation"
SEC	LTM150XO-L01	BN07-00164A	E27		"AMLCD 15"" XO-L01 new panel development"
SEC	LTM150XO-L01	BN07-00164B	E28		"AMLCD 15"" XO-L01 ZPD code derivation"
SEC	LTM170EU-L11	BN07-00160B	E29		"AMLCD 17"" NEW panel code derivation"
SEC	LTA320W2-L01	BN07-00172A	SPZ		AMLCD 32" NEW panel
SEC	LTM213U4-L01	BN07-00124B	SPZ		21.3" Narrow PANEL ZPD Panel derivation
SEC	LTM170EU-L11	BN07-00189A	STH		AMLCD EU-L11 Pb free panel code derivation
SEC	LTM170EU-L11	BN07-00189B	STZ		AMLCD EU-L11 Pb free panel ZPD code derivation
SEC	LTM240W1-L04	BN07-00188A	SPH		24" A-DCC new panel development
SEC	LTM190EX-L01	BN07-00191A	STH		AMLCD 19" TN new Panel
SEC	LTM190EX-L02	BN07-00191B	STZ		AMLCD 19" TN new Panel ZPD derivation
SEC	LTA230W1-L02	BN07-00184A	SPZ		AMLCD 23" 16:9 new Panel
SEC	LTA260W2-L01	BN07-00185A	SPZ		AMLCD 26" 16:9 new Panel
SEC	LTM240M1-L01	BN07-00195A	SPH		24" panel with high brightness deveopment
SEC	LTA400W2-L01	BN07-00186A	SPZ		AMLCD 40" 16:9 new Panel
SEC	LTM150XO-L01	BN07-00197A	STH		AMLCD 15" XO-L01 Pb free panel code
SEC	LTM150XO-L01	BN07-00197B	STZ		AMLCD 15" XO-L01 Pb free panel ZPD code
SEC	LTM170EU-L21	BN07-00202A	STZ		AMLCD EU-L21 ZPD new code derivation
SEC	LTA460W2-L03	BN07-00187A	SPZ		BEETOVEN 46"ZPD new panel
SEC	LTM240M1-L01	BN07-00195B	SPZ		24" igh brightness panel ZPD code derivation
SEC	M170EX-L21	BN07-00206A	STZ		AMLCD LTM170EX-L21 ZPD new code derivation
SEC	LTA460H3-L01	BN07-00200A	SPZ		AMLCD 46" LED BLU panel
SEC	LTM170EU-L15	BN07-00214A	STZ		AMLCD EU-L15 TV high brightness ZPD new code derivation
SEC	LTM170E8-L21	BN07-00218A	SPZ		AMLCD LTM170E8-L21 PVA ZPD new code derivation
SEC	LTM190EX-L21	BN07-00222A	STZ		DISPLAY LCD
SEC	LTM201U1-L01	BN07-00190B	SPZ		AMLCD 20.1" Normal panel ZPD code derivation
SEC	LTM190E4-L21	BN07-00223A	SPZ		HAYDN 17" PZD code PANEL derivation

## 14 参考信息

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
SEC	LTA570H1-L01	BN07-00196A	SPZ		AMLCD 57" new panel development
SEC	LTM150XO-L21	BN07-00229A	STZ		AMLCD 15" XO-L21 8ms panel code
CPT	CLAA150XG09	BN07-00141A	PA		"CPT 15"" Monitor new panel development"
CPT	CLAA170EA02	BN07-00148A	PB		"17"" CPT NEW development panel"
CPT	CLAA170EA02	BN07-00148B	PC		"17"" CPT ZPD panel code derivation"
CPT	CLAA150XG09	BN07-00141B	PTZ		"CPT 15"" panel ZPD code derivation (GOYA-PJT)"
CPT	CLAA150XP01	BN07-00173A	PTH		CPT 15" PSWG code derivation
CPT	CLAA150XP01	BN07-00173B	PTZ		CPT 15" PSWG panel ZPD code
CPT	CLAA170EA07	BN07-00174A	PTH		"CPT 17"" PSWG panel code derivation
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17"" PSWG type new Panel code""
CPT	CLAA170EA07	BN07-00174B	PTZ		CPT 17" PSWG type new Panel code
CPT	CLAA170EA07Q	BN07-00220A	PTZ		CPT 17" PSWG R/T 8msec code derivation
TOSHIBA	LTM15C419(A)	BN07-00002A	TA		-
TOSHIBA	LTM15C423(B)	BN07-00006A	TB		-
TOSHIBA	LTM18C161	BN07-00008A	TC		-
TOSHIBA	LTM15C443	BN07-00031A	TD		-
TOSHIBA	LTM15C458	BN07-00043A	TE		-
TOSHIBA	LTM15C458S	BN07-00077A	TF		"TSB 15"" high-brightness Panel"
TOSHIBA	LTM15C458	BN07-00078A	TG		Toshiba ZPD panel
TOSHIBA	LTM15C458S	BN07-00099A	TH		TSB LTM15C458S ( ZPD )
HANNSTAR	HSD150MX41A(A)	BN07-00020A	NA		"TTL type"
HANNSTAR	HSD150MX12	BN07-00030A	NB		"TTL type"
HANNSTAR	HSD170ME13	BN07-00180A	NTH		Hannstar 17" TN new panel development
HANNSTAR	HSD170ME13	BN07-00180B	NTZ		Hannstar 17" TN new panel development ZPD code derivation
HANNSTAR	HSD190ME12	BN07-00210A	NTZ		Hannstar 19" TN new panel development
HANNSTAR	HSD150MX17-A	BN07-00226A	NTZ		Hannstar 15" slim panel ZPD code derivation
TORISAN	TM150XG-22L03(A)	BN07-00021A	RA		-
TORISAN	TM150XG-26L06	BN07-00042A	RB		-
TORISAN	TM181SX-76N01	BN07-00048A	RC		-
TORISAN	TM150XG-26L06	BN07-00059A	RD		15" XGA TN MODE(ZPD)
TORISAN	TM290WX-71N31	BN07-00063A	RE		"RS24NS (TORISAN 29"" NEW PANEL)"
TORISAN	TM396WX-71N31	BN07-00064A	RF		"RS24NS (TORISAN 40"" NEW PANEL)"
TORISAN	TM150XG-26L09	BN07-00073A	RG		"Panel for 15"" TV"
TORISAN	TM150XG-26L10	BN07-00089A	RH		"L10(change except D/IC) ZPD"
TORISAN	TM150XG-26L10	BN07-00090A	RJ		L10 NORMAL
TORISAN	TM190SX-70N01	BN07-00098A	RK		Torisan 19" Panel
TORISAN	TM181SX-76N01	BN07-00106A	RL		ZPD Panel code
TORISAN	TM190SX-70N01	BN07-00107A	RM		ZPD Panel code
TORISAN	TM290WX-71N31	BN07-00115A	RN		"Color Coordinates change panel for TORISAN 29"" TV"
TORISAN	TM396WX-71N31	BN07-00116A	RP,Q		"Color Coordinates change panel for TORISAN 40"" TV"
TORISAN	TM220WX-71N31	BN07-00125A	RR		"Development TORISAN 22"" TV PANEL (ZPD)"
TORISAN	TM220WX-71N31	BN07-00127A	RS		"Development TORISAN 22"" TV PANEL (HPD)"
TORISAN	TM396WX-71N32A	BN07-00150A	RT		120V inverter Exclusive panel
TORISAN	TM190SX-70N02	BN07-00154A	RMH		Torisan 6bit panel code Derivation
TORISAN	TM190SX-70N02	BN07-00154B	RMZ		Torisan 6bit panel code Derivation
TORISAN	TM150XG-A01	BN07-00162A	RTH		Torisan 15" Narrow & Slim panel development
TORISAN	TM150XG-A01	BN07-00162B	RTZ		Torisan 15" N&S panel ZPD code Derivation
SHARP	LQ181E1DG11(A)	BN07-10001C	PA		-
SHARP	LQ150X1LW71	BN07-00067A	PB		SHARP 15" PVA PANEL



制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
SHARP	LQ370T3LZ41	BN07-00216A	FAZ		Rome2
HITACHI	TX38D12VC0CAA(A)	BN07-00003A	HA		-
HITACHI	TX43DVCOCAB	BN07-00060A	HB		17" SXGA PVA MODE
HITACHI	TX43D15VC0CAB	BN07-00101A	HC		ZPD Panel
HITACHI	TX51D11VC0CAB	BN07-00122A	HD		20.1" NARROW
HITACHI	TX54D11VC0CAB	BN07-00123A	HE		21.3" NARROW
HITACHI	TX80D12VC0CAB	BN07-00169A	HIZ		"Development new panel for Hitachi 32" TV (ZPD)"
HITACHI	TX54D11VC0CAB	BN07-00123B	HIZ		Hitachi 21.3"ZPD panel
IBM UNIPAC	ITSX94S UM170E0	BN07-00017A BN07-00028A	IA UA		- Loaded by cisdba
HYUNDAI	HT15X13	BN07-00035A	DA		-
HYUNDAI	HT17E11-200	BN07-00049A	DB		TN MODE
HYUNDAI	HT17E11-300	BN07-00093A	DC		HT17E11-300 ZPD panel
HYUNDAI	HT17E11-400	BN07-00094A	DD		HT17E11-400 normal panel
HYUNDAI	HT17E11-400	BN07-00095A	DE		HT17E11-400 ZPD panel code
HYUNDAI	HT17E12	BN07-00096A	DF		HT17E12 ( Narrow & slim Design )
HYUNDAI	HT17E12	BN07-00105A	DG		ZPD Panel code
HYUNDAI	HT15X15-D00	BN07-00146A	DH		"Development for Ares 15" Hydis TV"
HYUNDAI	HT15X15-D01	BN07-00146B	DJ		"Derivation panel HPD for Ares 15" Hydis TV "
HYUNDAI	HT17E13-100	BN07-00167A	DTH		"PINEHURST-2(IBM) PJT 17" HYDIS PANEL Derivation"
HYUNDAI	HT17E13-100	BN07-00167B	DTZ		"PINEHURST-2(IBM) Hydis 17" ZPD code Derivation"
ACER	L170E3	BN07-00044A	AA		TN(ADT)
ACER	M170EN05	BN07-00076A	AB		AU 17" Panel ( Narrow & slim design )
ACER	M170EN05	BN07-00102A	AC		ZPD Panel code
ACER	M190EN02	BN07-00170A	AMH		"AU Monitor 19" new panel development (P19-1S)"
ACER	M190EN02	BN07-00170B	AMZ		"AU 19" ZPD code derivation (ZPD)"
ACER	M170EN06	BN07-00171A	ATH		"AU Monitor 17" New panel development "
ACER	T260XW01	BN07-00163A	AMZ		"AU 26" new panel development (NF26EO)"
ACER	A201SN01	BN07-00177A	ATZ		"AU TV panel 20.1" TN SVGA new panel development"
ACER	M170EN06	BN07-00171B	ATZ		AU Monitor 17" ZPD code derivation
ACER	T315XW01	BN07-00194A	AMZ		AU 32" new
ACER	M170EG01	BN07-00192A	ATH		AU TN PSWG type new Panel code
ACER	M170EG01	BN07-00192B	ATZ		AU TN PSWG type NEW panel code derivation
ACER	M190EN04	BN07-00203A	ATH		AU Monitor 19" ZPD new Panel code
ACER	T260XW02	BN07-00208A	AMZ		AUO 26" ZPD panel
ACER	M170EG01 V3	BN07-00221A	ATZ		AU TN PSWG type new Panel (8msec) ZPD code derivation
ACER	T260XW02	BN07-00233A	AMZ		AUO 26" Panel new (Cosmetic spec down grade)
ACER	T315XW01	BN07-00234A	AMZ		AUO 32" Grade new (Cosmetic spec down grade)
ACER	M190EN03	BN07-00224A	AMZ		AU Monitor 19" MVA new code derivation
ACER	T315XW01	BN07-00237A	AMZ		LCD TV VE project new
ACER	T315XW01	BN07-00238A	AMZ		LCD TV VE project new
CHIMEI	M170E3-LO1	BN07-00050A	CA		TN PANEL
CHIMEI	M150X3-L01	BN07-00051A	CB		COMPATIBLE
CHIMEI	M170E4-L01	BN07-00052A	CC		MVA PANEL
CHIMEI	M150X2-L01	BN07-00066A	CD		CHIME 15" PVA PANEL
CHIMEI	M150X3-L01	BN07-00079A	CE		Chimei ZPD panel
CHIMEI	M170E3-L01	BN07-00103A	CF		ZPD Panel code
CHIMEI	M170E4-L01	BN07-00104A	CG		ZPD Panel code
CHIMEI	V296W1-L01	BN07-00120A	CH		MVA

## 14 参考信息

制造商	供货商P/N	屏面代码	屏面ABB	标签代码	备注
CHIMEI	M170E6-L02	BN07-00126A	CJ		HIGHLAND 17" LOW PANEL
CHIMEI	M190E2-L01	BN07-00131A	CK		GH19AS,BS CHIMEI PANEL
CHIMEI	M150X4-L06	BN07-00137A	CL		15" Narrow & Slim panel
CHIMEI	M170E6-L01	BN07-00133A	CM		"2003-03-11 vendor change"
CHIMEI	M170E6-L01	BN07-00133B	CN		ZPD derivation panel
CHIMEI	V201V1-T01	BN07-00135A	CP		CHIMEI 20.1" panel development
CHIMEI	M170E6-L02	BN07-00126B	CQ		"HIGHLAND 17"" LOW PANEL ZPD derivation panel"
CHIMEI	M170E6-L05	BN07-00152A	CR		"CMO 17"" new panel development code"
CHIMEI	M170E6-L05	BN07-00152B	CS		"CMO 17"" ZPD panel code derivation"
CHIMEI	M150X4-L06	BN07-00137B	CT		Chimei 15" Narrow & Slim panel ZPD derivation
CHIMEI	M170E5-L05	BN07-00165A	CTH		CMO 17" new panel development code (GOYA2-PJT)
CHIMEI	M170E5-L05	BN07-00165B	CTZ		CMO 17" ZPD panel(GOYA2-PJT)
CHIMEI	V230W1-L02	BN07-00209A	CMZ		CMO 23" development
CHIMEI	V320B1-L01	BN07-00207A	CMZ		CMO 32" development

## 2 产品规格

### 2-1 时尚特点

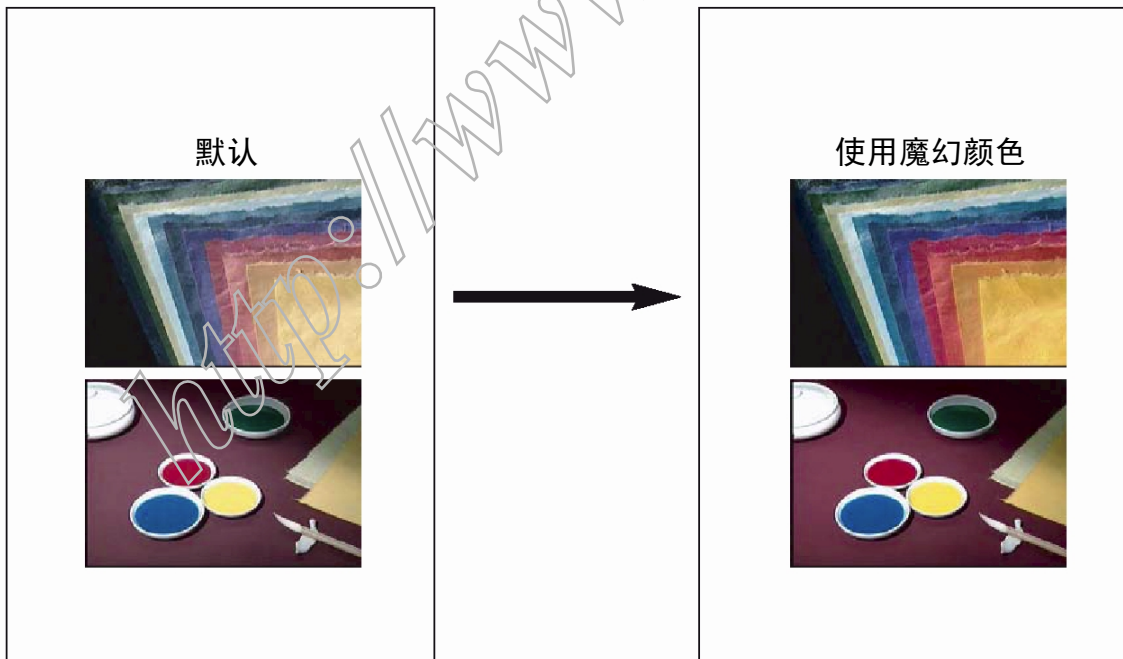
- 支持模拟、数字、视频、S-Video
- 缩短了响应时间：16ms
- 支持 Magic Color Pro  
魔幻颜色、色调、灰度系数、6 色、色弱
- 当来源为模拟和数字时支持画中画
- 魔幻亮度：采用 4 步  
测试、互联网、娱乐和定制
- 安装 Magictune 3.6 和 Pivot 软件
- 自动转动：当显示器旋转 90 度时，显示 LED 和 OSD 也随之自动旋转。只有当 Magictune 4.0 和 Pivot 软件正在运行时，才可执行本功能。

### 2-2 规格

项目	说明
液晶显示屏	薄膜晶体管液晶显示屏、RGB 竖条纹、正常黑色传输、20 英寸可视，0.255（水平）X 0.255（垂直）mm 像素点距
扫描频率	水平：31 kHz~80 kHz（自动） 竖直：56 Hz~75 Hz（UXGA：60Hz）
显示颜色	16.7M 种颜色
最大分辨率	水平：1600 像素 竖直：1200 像素
输入信号	模拟/数字/视频/S-Video
输入同步信号	单独分开的H/V同步，复合H/V，绿色同步，无需外部切换同步类型，自动同步 支持的视频模式：NTSC/PAL/SECAM/PAL M/PAL N/NT43/PAL60 支持的 DVI 模式：480i/p, 720p@50Hz, 720p@60Hz, 1080i@50Hz 1080i@60Hz（支持 HDCP） 电平：TTL 电平
最大像素时钟率	162 MHz
有效显示 水平/竖直	408（水平）X 306（宽）mm
交流电源电压和频率	AC 90~264 伏，60/50 Hz ± 3Hz
功耗	63W（最大）
尺寸	
本机（宽×深×高）	17.5 x 9.0 x 18.0英寸（445 x 228.5 x 457.2 mm）安装底座
包装	17.0 x 10.8 x 22.8 英寸（432 x 275 x 580 mm）旋转底座
重量（本机/包装）	8.15 kg（17.9 lbs）/10.35kg（22.8lbs）
环境因素	工作温度：0°F~122°F（0°C~50°C） 工作湿度：20%~90% 存放温度：-4°F~149°F（-20°C~65°C） 存放湿度：5%~90%
-设计和规格可能有变动，恕不事先通知	

### 2-3 LS20BRCS 特点


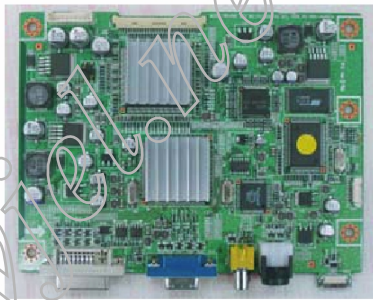
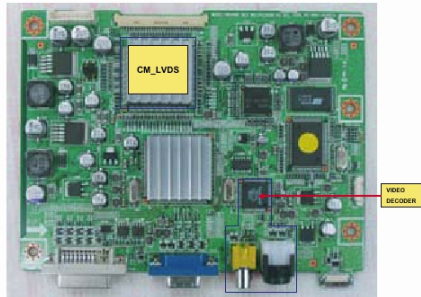
序号	特点	特点	操作方法
1	自动调节	Brahms 首次以某些分辨率打开，可以自动进行调节，以获得高质量	
2	自动开机/关机	Brahms 可以自动检查来源是否改变，并将来源改为有效输入	
3	墙上支座	Brahms 支持墙上支座 (100mm×100mm 符合 VESA 标准的安装接口板。)	
4	灰度系数和色温 精细调节	Brahms 支持对灰度系数和色温进行 9 步精细调节	Magic tune 4.0
5	魔幻亮度	Brahms 支持 4 个不同的亮度模式 (文本/互联网/娱乐/定制)	
6	清晰度	调节清晰度	
7	自动转动	Brahms 有 Pivot 传感器集成电路， 1) 如果 Brahms 旋转 90°， 2) MCU 可通过传感器集成电路检测当前状态， 3) Magic tune 4.0 和 Pivot 软件可自动将屏幕改为旋转度数。	必须在计算机上安装 Magic tune 4.0 和 Pivot 软件。
8	魔幻颜色	关-返回原来的模式。 演示-右侧显示采用魔幻颜色之前的屏幕，左侧显示采用魔幻颜色之后的屏幕。 全部-清晰地显示鲜明的自然色。 智能-不仅清晰地显示鲜明的自然色，而且显示更逼真自然肤色。	Magictune 4.0 的颜色菜单



## 2-4 规格比较

主要规格		
型号	LS20BRBS 204T	LS20BRCS 204Ts
屏幕尺寸	20.1"	20.1"
亮度	300 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>
对比度	700:1	700:1
响应时间	16 ms	16ms
输入来源	模拟/数字	模拟/数字/AV/S-Video
魔幻颜色	X	O
魔幻转动	O	O
Magic tune	3.6 版	4.0 版
6 色	X	O
色弱	X	O
灰度系数	3 步 模式 1/模式 2/模式 3 /+0.4/+0.5/+0.6	8 步 -0.2/-0.1/0/+0.1/+0.2/+0.3 /+0.4/+0.5/+0.6
魔幻亮度	6 步 文本/互联网/电影/体育运动/游戏/定制	4 步 文本/互联网/娱乐/定制
色调	3 步 冷色/正常/暖色	6 步 暖色 2/暖色 1/正常/冷色 1/ 冷色 2/冷色 3/冷色 4

## 2-5 与其它型号的规格比较

型号	LS20BRBS (204T)	LS20BRCS (204Ts)
响应时间	16ms	16ms
输入来源	模拟/数字	模拟/数字/AV/S-Video
魔幻转动	自动 (Pivot 程序+传感器集成电路)	自动 (Pivot 程序+传感器集成电路)
魔幻颜色	X	O
Magic Tune	采用 3.6 版	采用 4.0 版
6 色	X	O
色弱	X	O
PBA		
另外的部分		

## 2-6 选装件规格

物品	物品名称	代号	备注
	快速安装指南	BN68-00376L	
	保修卡 (在所有地点不提供)	BH68-70438A	
	使用说明书, 显示器驱动程序, 自然色软件 MagicTune™软件	BN59-00395P	
	D-Sub (15 针) 电缆	BN39-00244B	
	电源线	3903-000042	
	DVI 电缆	BN39-00246F	

## 备忘录

<http://www.wjel.net>



## 11 拆卸和重新组装

维修手册的这一章叙述 LS20BRCS 液晶显示器的拆卸和重新组装步骤。

⚠ **警告：** 本显示器包含静电敏感器件。处理这些部件时应小心。

### 11-1 拆卸

⚠ **小心：** 1. 在平坦的桌子上拆卸底座。

2. 拆卸前，断开显示器电源。



1. 将显示器面朝下放到铺有垫子的桌子上。拆开螺钉（4点），并提起底座。

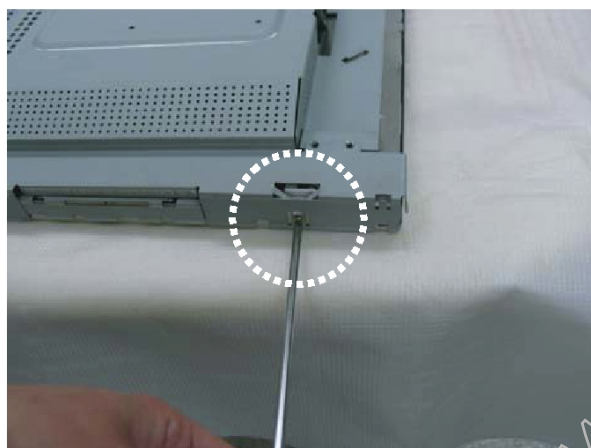


2. 使用开启工具，并抬起后盖。

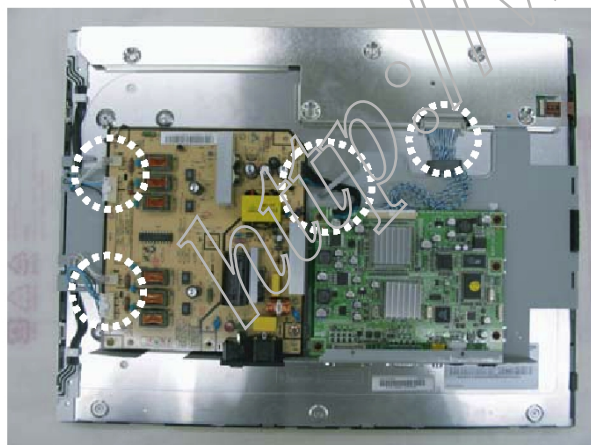
## 11 拆卸和重新组装



3. 断开主板电缆，并拆开印刷电路板护板和印刷电路板支架之间的螺钉。（2点）



4. 拆开印刷电路板护板和显示屏之间的螺钉。（4点）并提起护板。



5. 拆开显示屏与 IP 板和主板之间的线束。

### 11-2 重新组装

重新组装步骤与拆卸步骤相反。

## 3 调整和调节

维修手册本章说明如何使用 RS232 JIG。

该功能为更换 AD 板和程序存储器（IC200）所需。

### 3-1 所需的设备

以下设备为调整显示器所需。

装有 Windows 95、Windows 98、Windows NT、Windows 2000 或 Windows XP 的计算机。

MTI-2031 DDC 管理工具

### 3-2 自动色彩调整

若要输入图像，使用 16 级灰度或任何使用黑色和白色的图形。

1. 同时按住菜单和▲键约 5 秒。
2. 显示屏闪烁，表明自动颜色调节过程结束。
3. 在维修功能中也有自动颜色调节功能。

### 3-3 DDC EDID 数据输入

1. 在更换 AD 印刷电路板时，输入 DDC EDID 数据。
2. 由 HQ 质量控制部门接收/下载适于该机型 DDC 文件。  
安装以下装置（图 1）并输入数据。

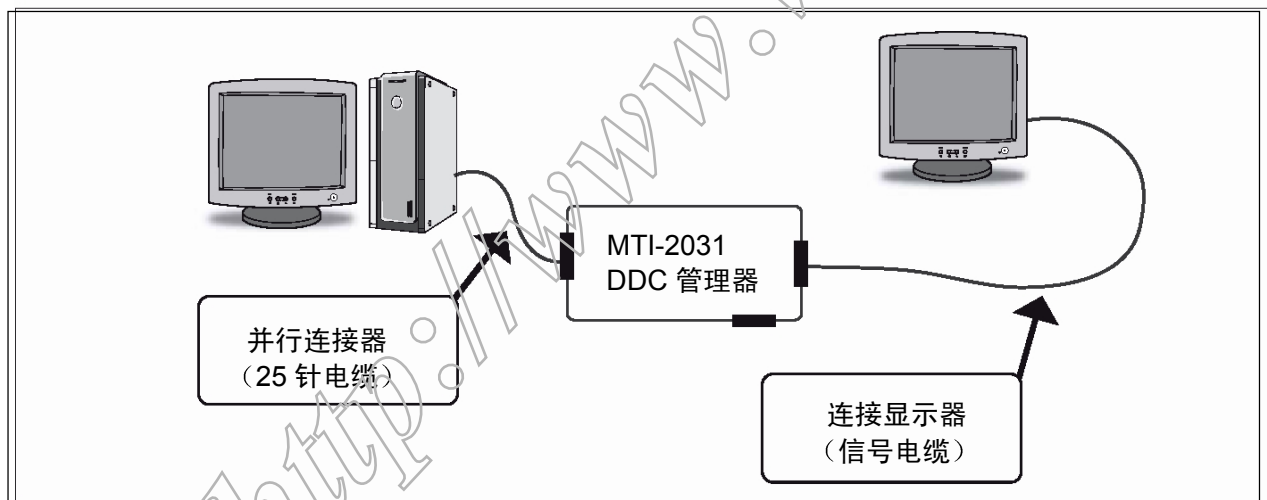


图 1

### 3-4 更换显示屏时在屏显示调节

1. 将亮度和对比度设为零，并按下菜单按钮 5 秒以上。  
功能 OSD 显示如图 2 所示。
2. 选择显示屏信息。
3. 选择准备更换的显示屏。

### 3-5 仅更换灯时在屏显示调节

1. 将亮度和对比度设为零，并按下菜单按钮 5 秒以上。  
功能 OSD 显示如图 2 所示。
2. 选择显示屏信息。
3. 选择上灯/下灯。

**-注意：**当更换显示屏和主板时请进行自动色彩调节。

### 3-6 维修功能规格

#### 3-6-1 如何显示维修功能 OSD

1. OSD 如 3-2 所示显示。
2. 如欲退出维修功能，按下电源键，并重启显示器。

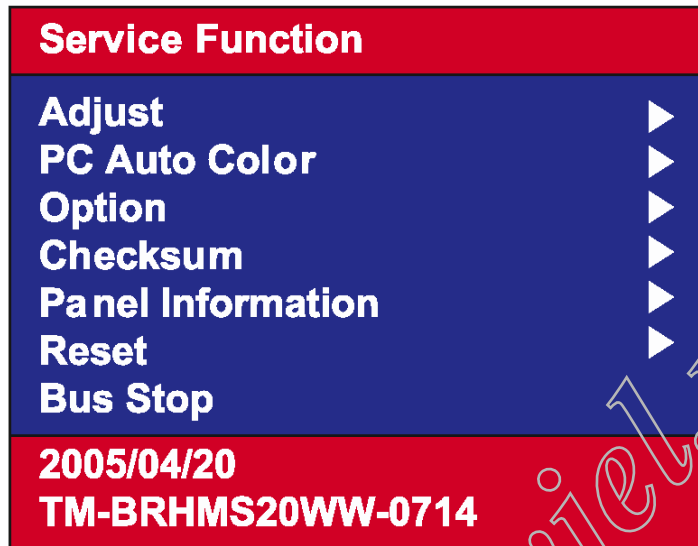


图 2. 维修功能 OSD 举例

#### 3-6-2 如何控制维修功能 OSD

使用 ▲ 或 ▼ 按钮，选择所需项目，并按下确定按键。

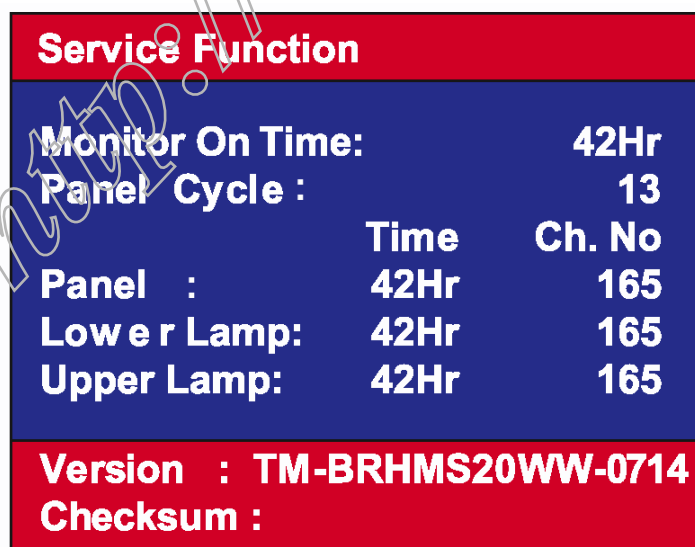


图 3. 功能 OSD 中的显示屏信息显示

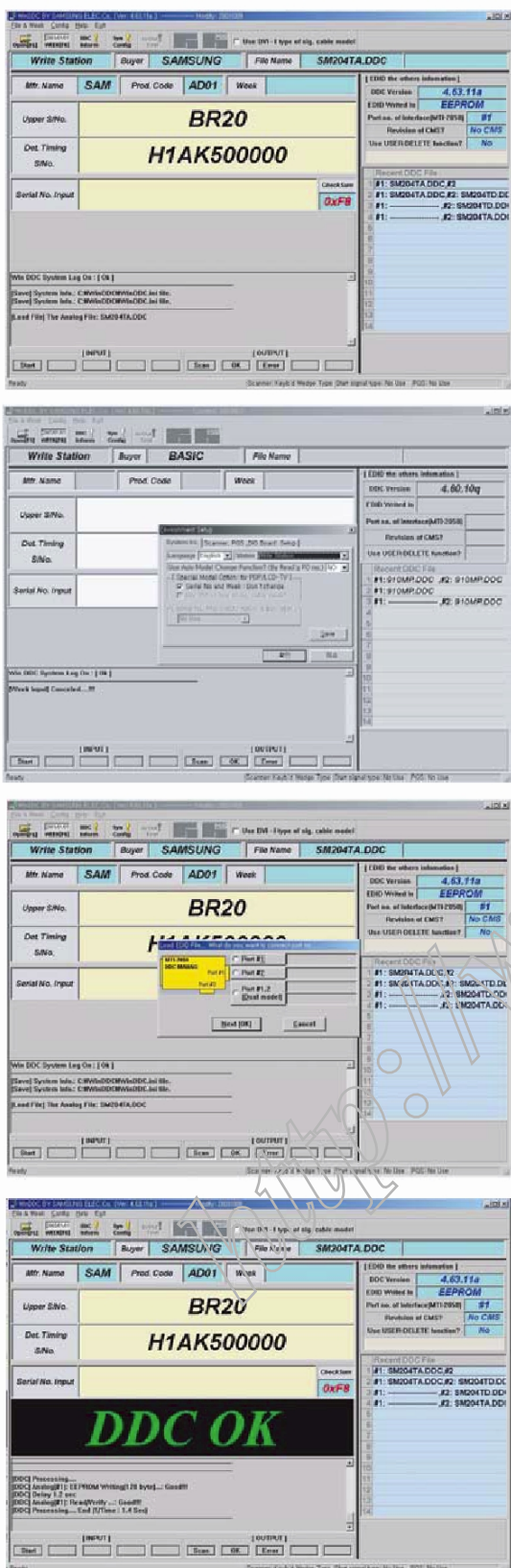
## 3-7 隐藏按键列表

序号	功能	操作方法
1	隐藏维修功能 	<ul style="list-style-type: none"> <li>- 在依次设置亮度和对比度“0”后，按下“菜单”按钮 5 秒以上</li> <li>- 在左上角显示维修功能</li> <li>- 添加基本调节操作的 OSD               <ol style="list-style-type: none"> <li>1) 调节</li> <li>2) PC 自动颜色</li> <li>3) 选项</li> <li>4) 检验和</li> <li>5) 显示屏信息</li> <li>6) 复位</li> <li>7) 总线停止</li> </ol> </li> </ul> <p>*. 2005/04/20: MCU 固件日期            *. TM-BRHMS20WW-0714: MCU 固件版本信息            (因兼容性问题报告之故，必须附上该信息。)</p>
2	隐藏维修功能 (1) 	<p>移到 (-) / (+) 键，选择“确定”键。</p> <ol style="list-style-type: none"> <li>1) 自动调节</li> <li>2) PC 自动颜色: 如果所有屏幕的颜色有误，以 1600*1200 60Hz 的 16 灰度图执行 PC 自动颜色功能。(参照左侧附上的 16 灰度图)</li> <li>3) 选项: 扩展步骤/扩展跨度 (适用于 EMI 测试)</li> <li>4) 检验和: MCU 固件检验和信息 (因兼容性问题报告之故，必须附上该信息。)</li> </ol>

3 调整和调节

序号	功能	操作方法
3	<p>隐藏维修功能（1）</p> <p>*.当选择显示屏信息时</p> 	<p>5) 显示屏信息 信息中包括各种功能。</p> <ol style="list-style-type: none"> <li>1.显示器开机时间：开机时间</li> <li>2.显示屏周期：显示屏开/关时间（关机、模式变化、DPMS 开/关...）</li> <li>3.显示屏：显示屏开启时间 （当更换显示屏时，选择复位）</li> <li>4.下灯：下灯开启时间 （当更换下灯时，选择复位）</li> <li>5.上灯：上灯开启时间 （当更换上灯时，选择复位）</li> </ol> <p>6) 复位：工厂复位</p> <p>7) 总线停止：通信线路开/关</p>

## 3-8 用 Windows 程序安装 EDID



1. 执行“WinDDC.exe”

2. 点击“Sys Config”  
选择“站：写入站”。  
选择“系列号和星期：不改变”  
点击“存储”

3. 点击“打开”图标。  
选择“连接端口#1”，接着选择“OK”。  
\*文件名称-SM204TA.ddc: 模拟  
-SM204TD.ddc: 数字  
按下键盘上的 Enter 键。

4. 确认“DDC 正常”。

-更换主板后

-安装 EDID（模拟和数字）

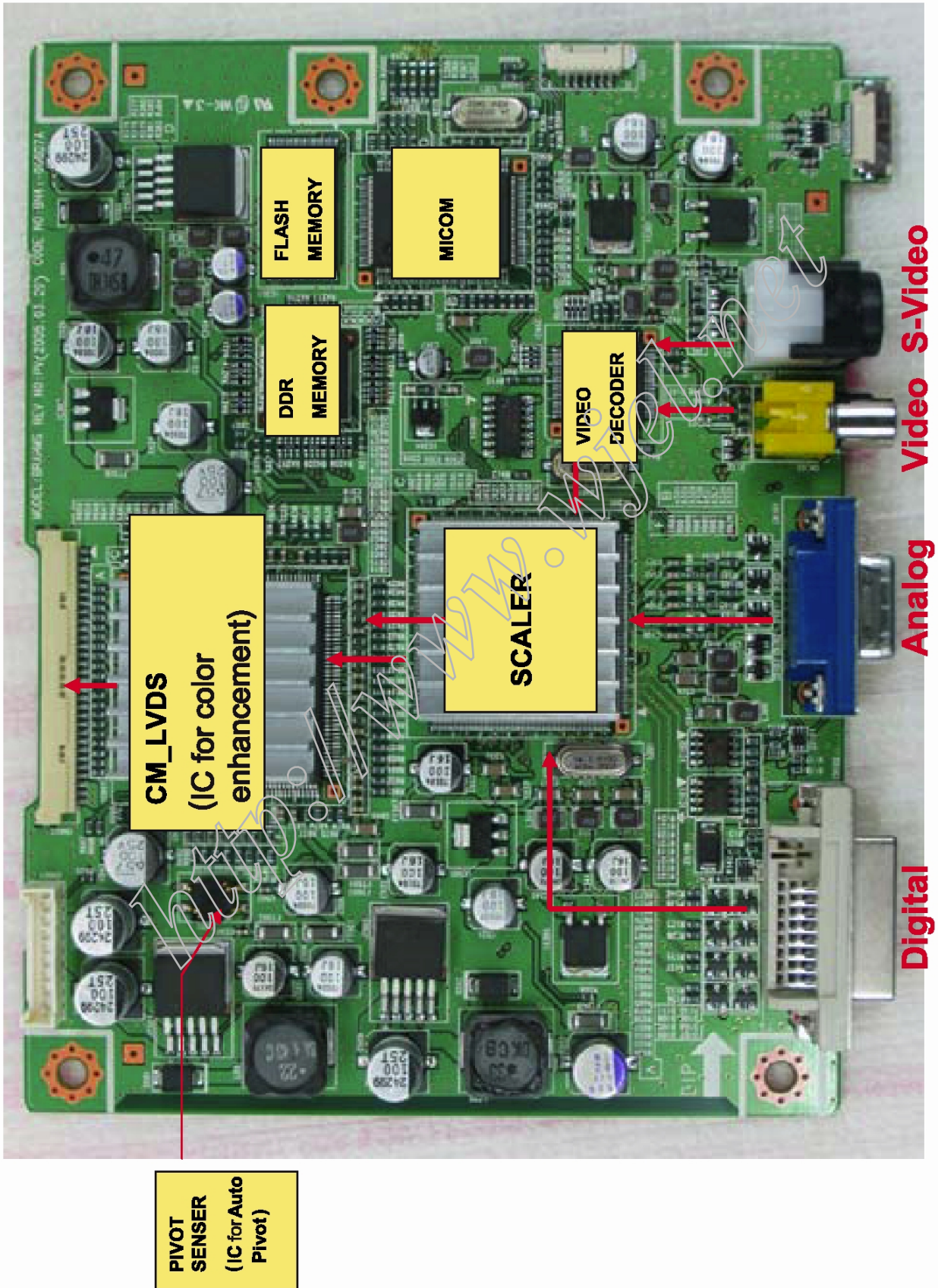
## 备忘录

<http://www.wjel.net>



# 13 电路说明

## 13-1 块说明



**PIVOT SENSER**  
(IC for Auto Pivot)

**CM\_LVDS**  
(IC for color enhancement)

**FLASH MEMORY**

**MICOM**

**DDR MEMORY**

**SCALER**

**VIDEO DECODER**

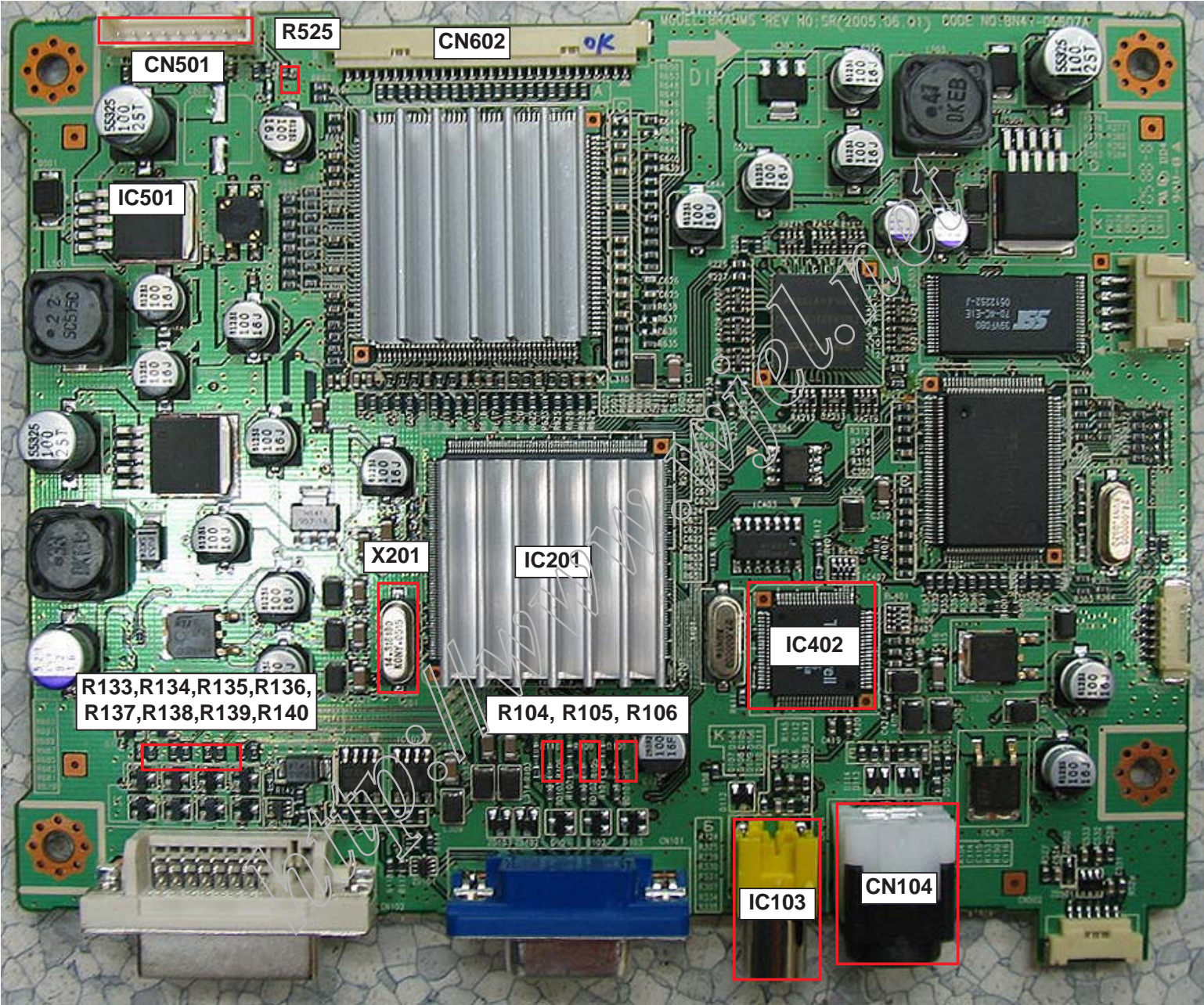
**Digital**

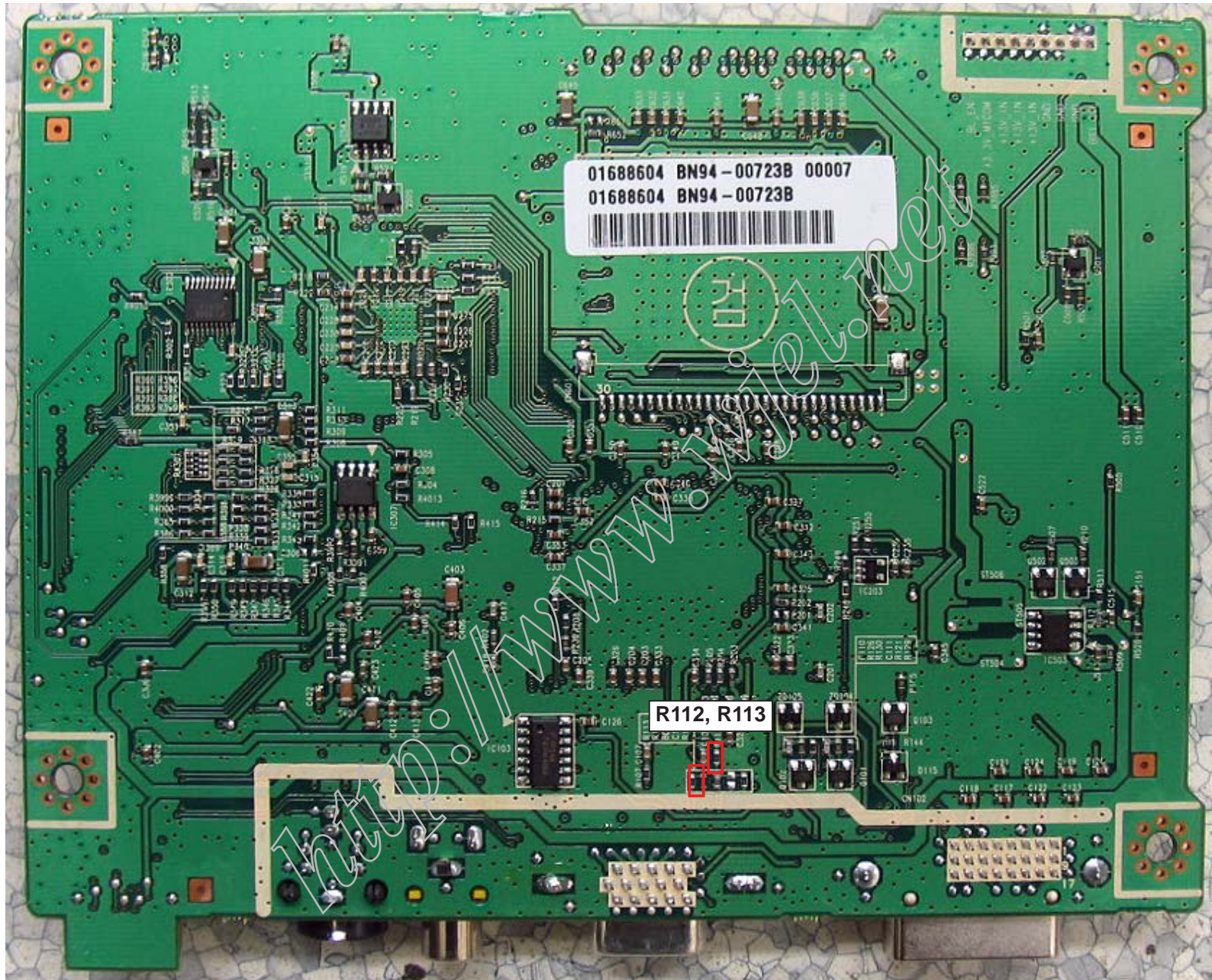
**Analog**

**Video S-Video**

## 13-2 块操作

序号	功能	说明
1	换算器	换算器集成了 ADC、TMDS、换算部分
2	CM_LVDS	彩色管理集成电路 本芯片有色弱彩色调节、灰度系数调节、灰度级色温补偿功能
3	DDR 存储器	DDR 存储器存储换算器所需的帧信息
4	视频解码器	本芯片从来源接收视频信号，并对换算器所需的信号解码。
5	旋转传感器	-MCU 可通过传感器识别角度，并旋转 OSD -Magic tune 3.6 从 MCU 接收基本信息，并通过 Pivot 软件旋转屏幕。
6	闪存	闪存存储 MICOM 所需信息 通过固件可以升级程序
7	MICOM	微控制器 Micom 控制显示器的所有功能

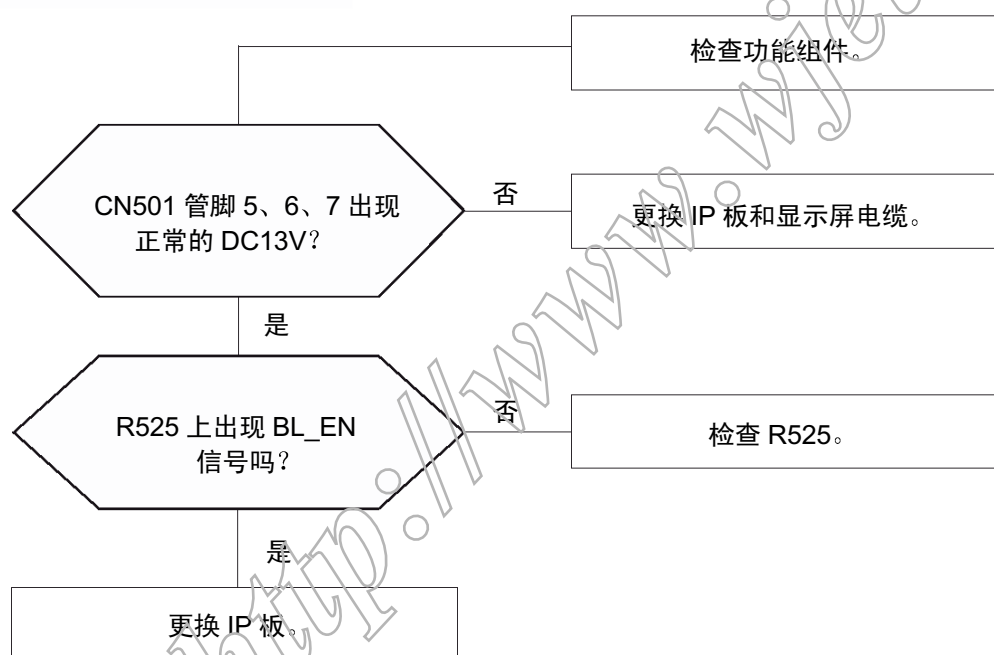




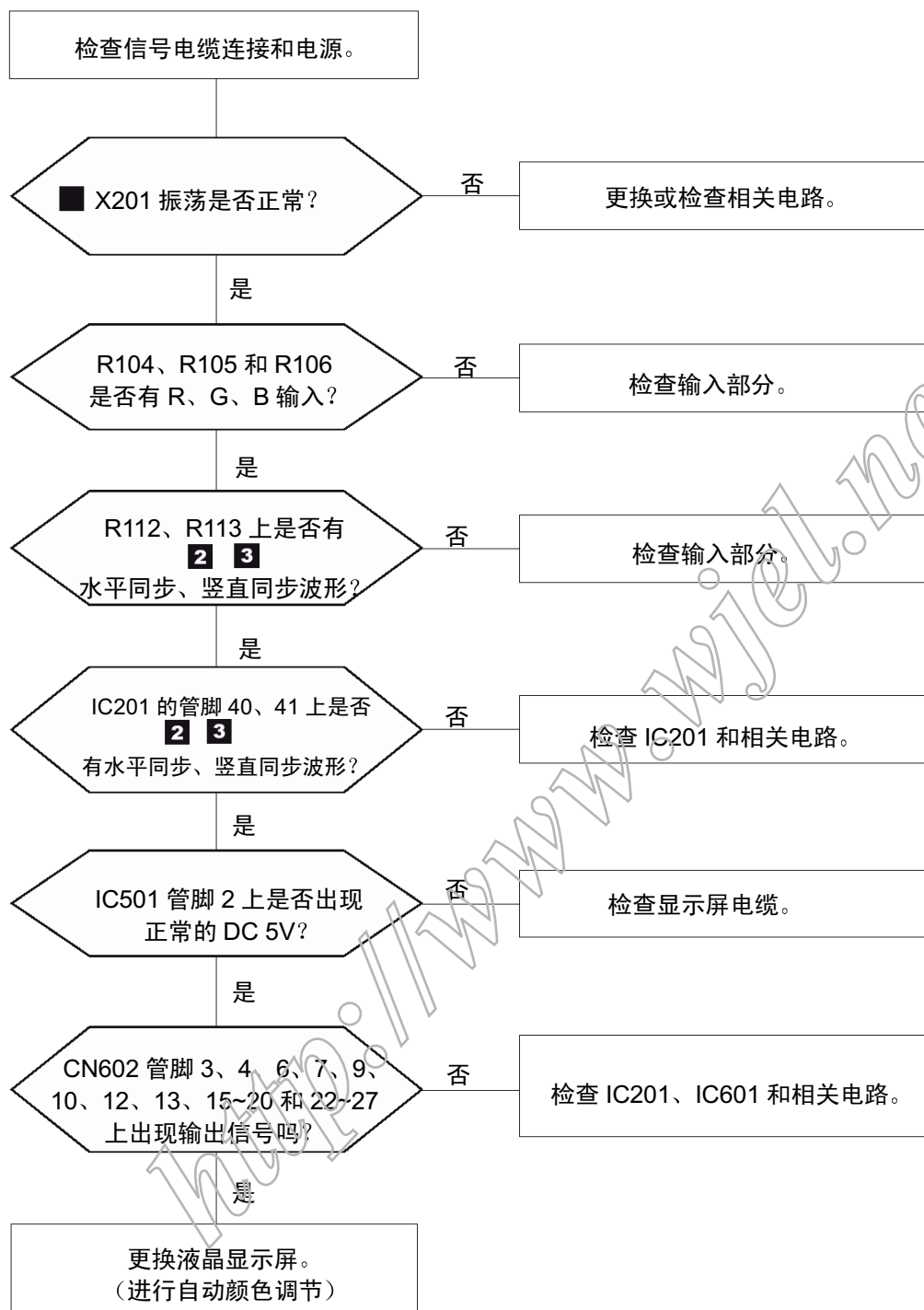
## 4 故障排除

- 注意：** 1. 在进行故障排除之前，按如下方式设置 PC 显示器：
- 分辨率：1600×1200
  - 水平频率：75 kHz
  - 垂直频率：60 Hz
2. 如果没有图像出现，确保正确连接了电源线。
3. 检查以下电路：
- 没有光栅出现：功能印刷电路板组件、主印刷电路板组件、IP 板
  - 5V 形成，但没有画面：主印刷电路板组件
  - 13V、5V 没有形成：IP 板、主印刷电路板组件

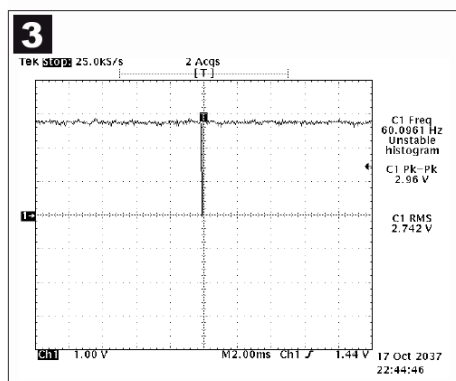
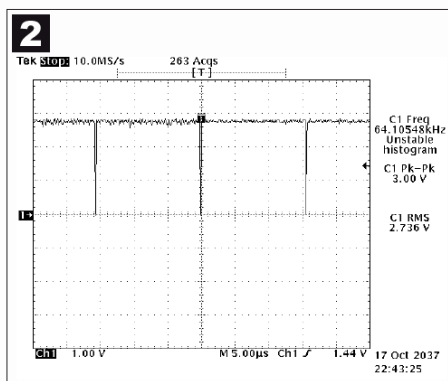
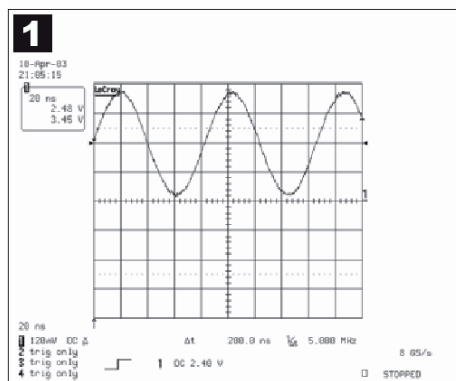
### 4-1 未通电



## 4-2 没有图像（模拟）

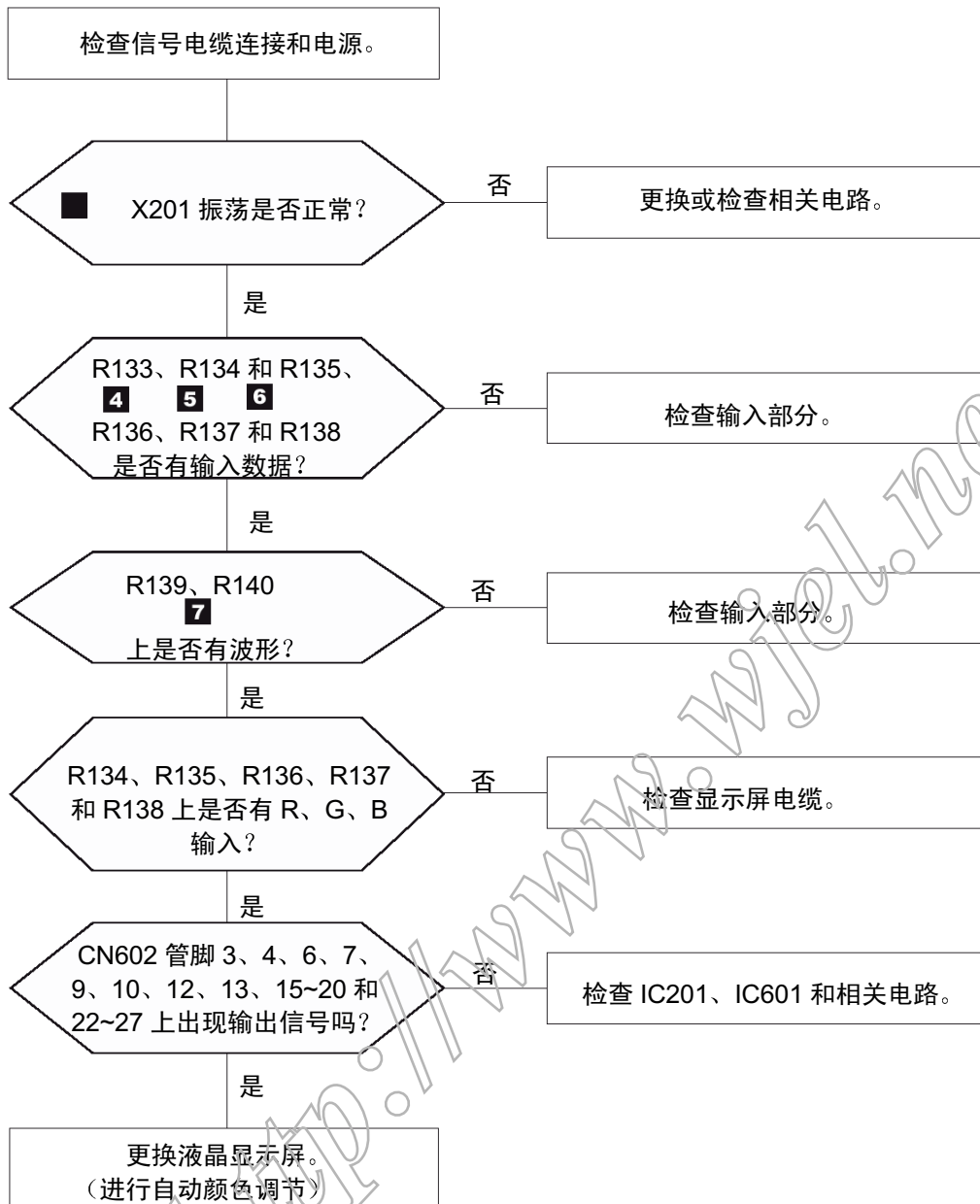


# 波形



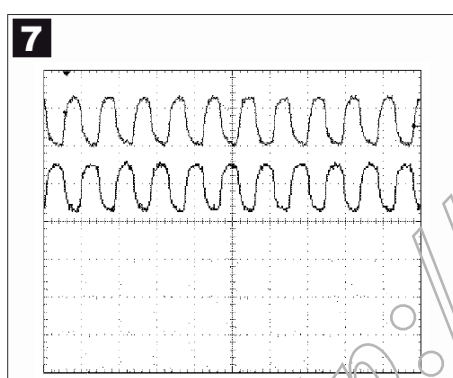
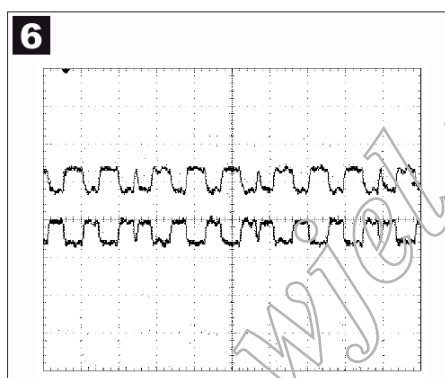
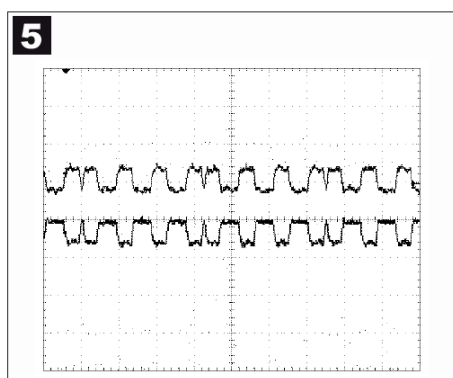
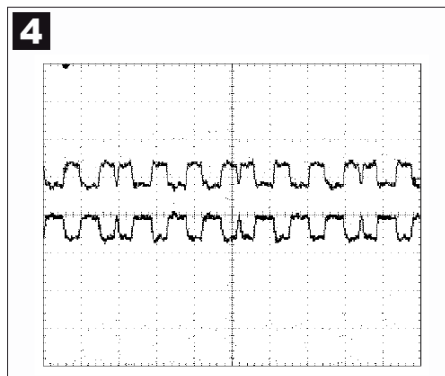
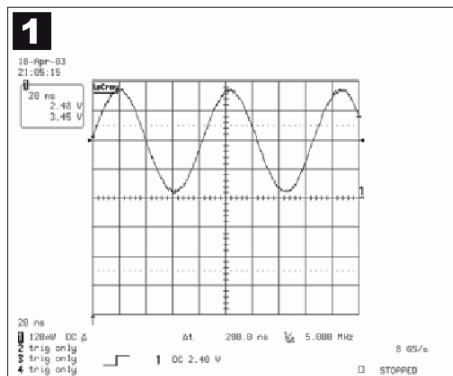
<http://www.wjcl.net>

### 4-3 没有图像（数字）



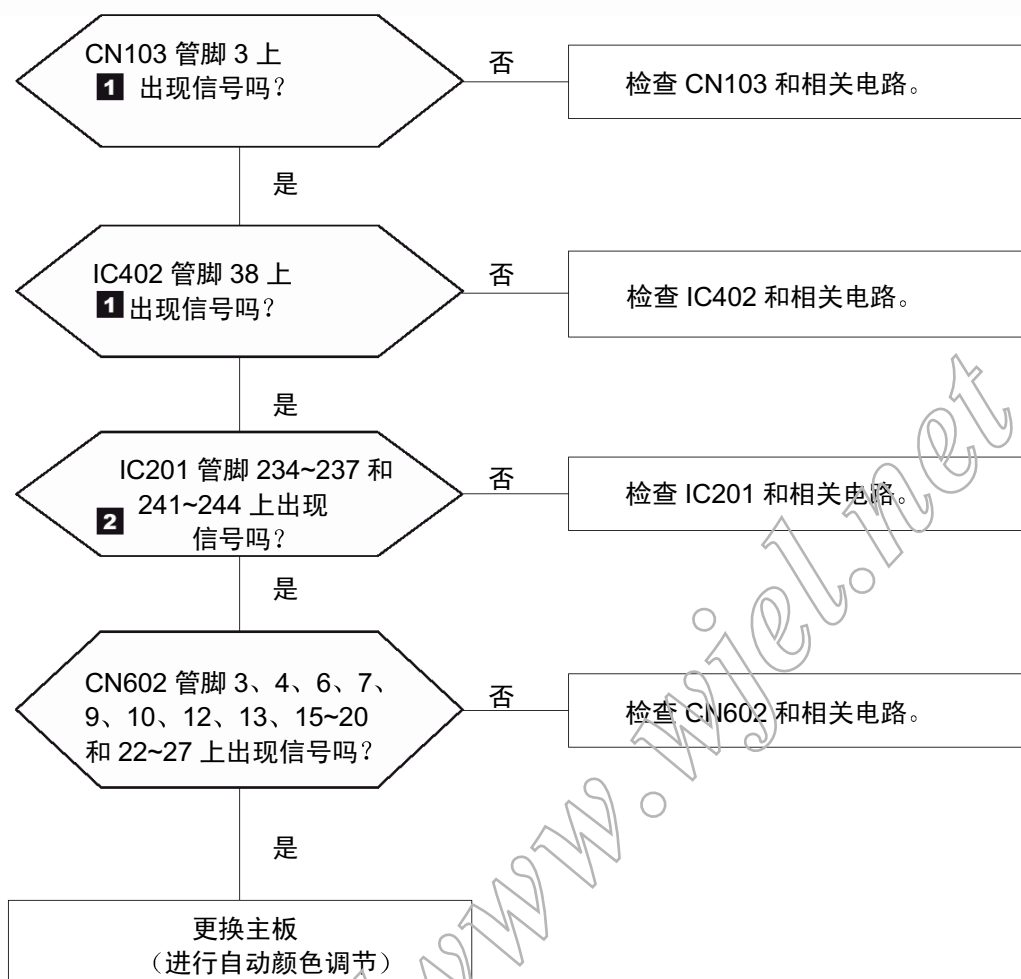


# 波形

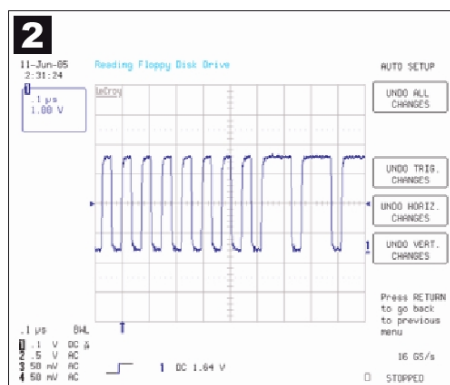
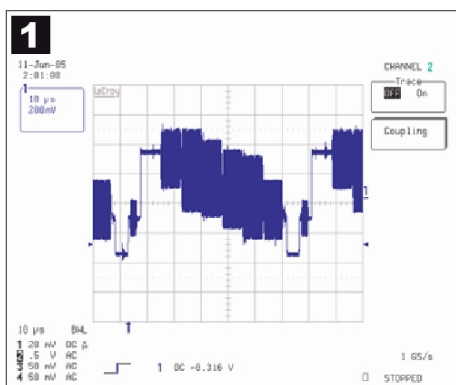


<http://www.wjcl.net>

### 4-4 没有画面（视频信号）

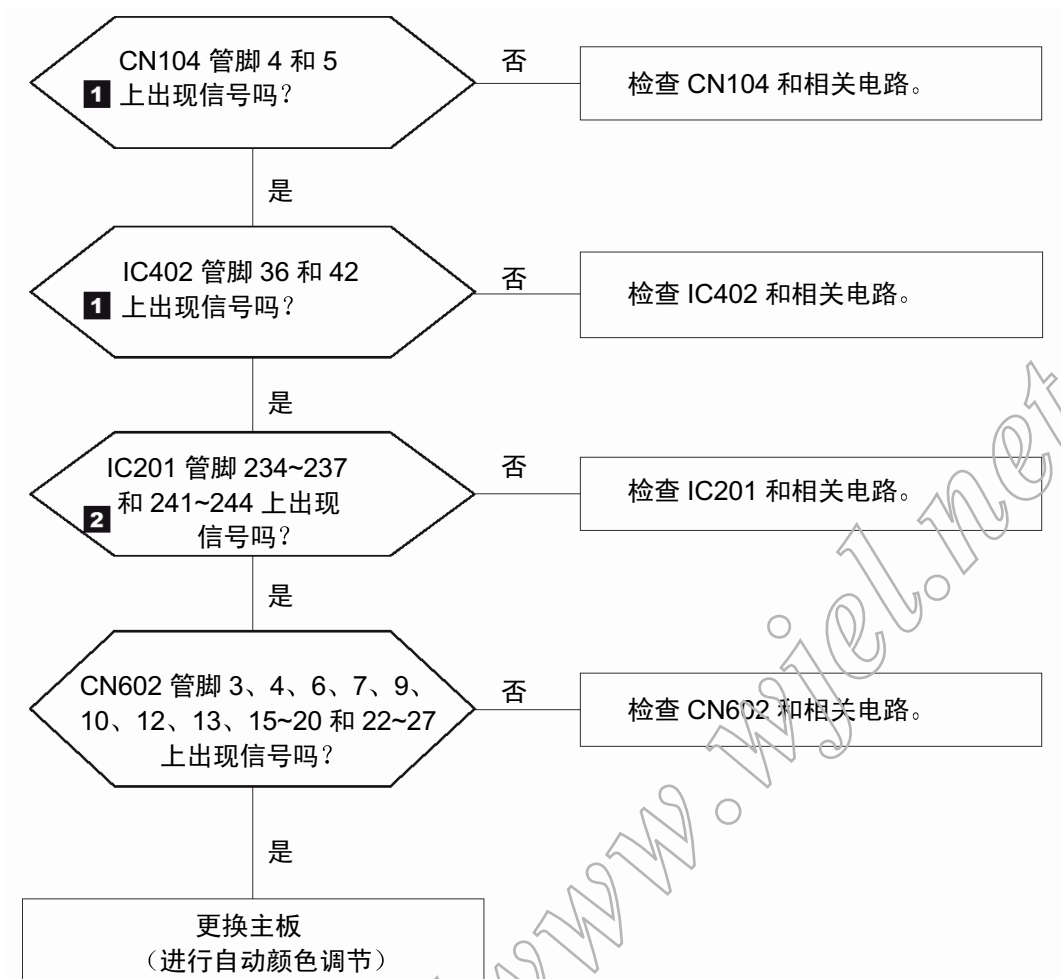


## 波形

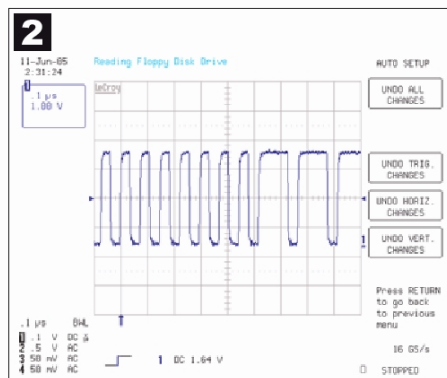
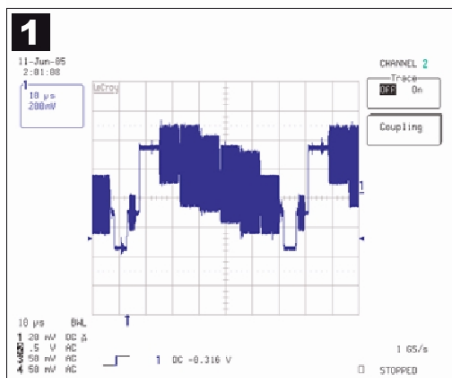


<http://www.wjcl.net>

### 4-5 没有画面（S-Video 信号）



## 波形

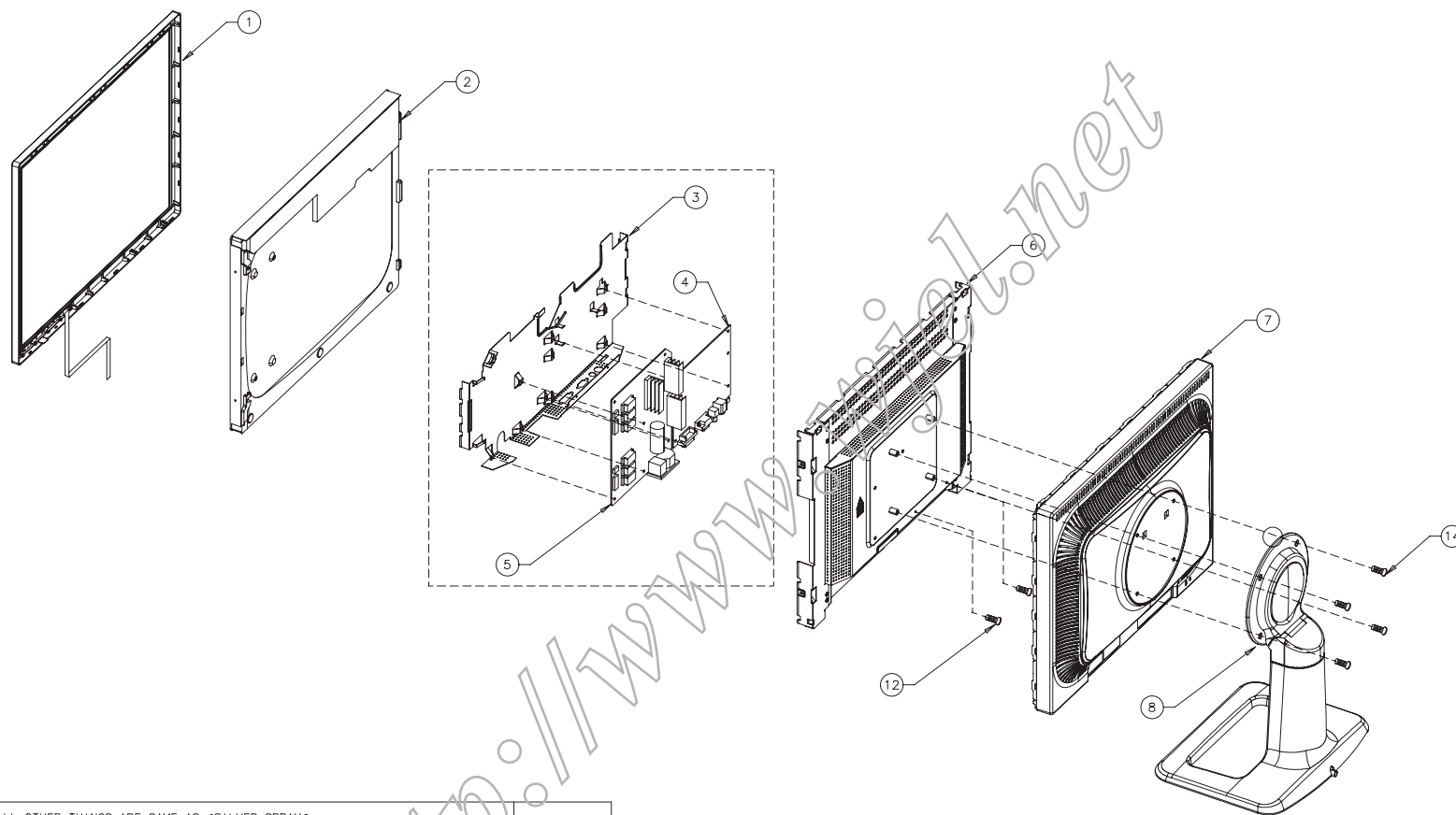


<http://www.wjcl.net>

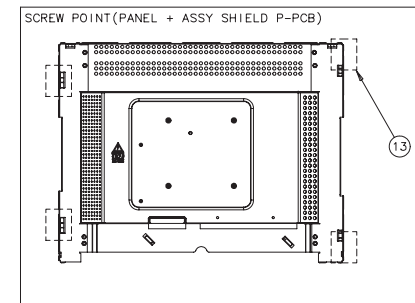
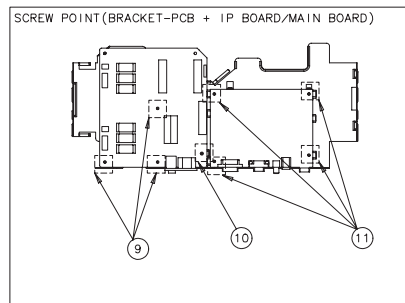
## 5 Exploded View and Parts List

-You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr>



ALL OTHER THINGS ARE SAME AS *SILVER SPRAY*						
(8)	ASSY STAND P	BN96-02171B	204T, 204Ts, BLACK SPRAY	1	SA	BLACK SPRAY
(7)	COVER-REAR	BN63-02010D	ABS+HB, BLACK SPRAY	1	SA	
(1)	ASSY COVER-FRONT	BN96-02172C	204Ts, SILVER SPRAY	1	SA	
(4)	SCREW-TAPTITE	6003-000337	BH, S, M4, L10, BLACK	1	SA	SILVER SPRAY
(3)	SCREW-TMACHINE	6001-000352	FH, M3, L6, L\PLT	4	SA	
(2)	SCREW-TAPTITE	6003-000115	BH, B, M3, L6, BLACK	2	SA	
(11)	SCREW-TAPTITE	6003-000115	BH, B, M3, L6, BLACK	4	SA	
(10)	SCREW-TAPTITE	6003-001439	BH, S, M4, L8	1	SA	
(9)	SCREW-TAPTITE	6003-000115	BH, B, M3, L6, BLACK	3	SA	
(8)	ASSY STAND P	BN96-02171A	204T, 204Ts, SILVER SPRAY	1	SA	
(7)	COVER-REAR	BN63-02010B	ABS+HB, SILVER SPRAY	1	SA	
(6)	ASSY SHIELD P-PCB	BN96-02173A	204T, 204Ts, SECC TO.8	1	SA	
(5)	IP-BOARD	BN44-00127A	204T, 204Ts	1	SNA	
(4)	MAIN-PCB	BN94-00723B	204Ts, W/W	1	SA	
(3)	BRACKET-PCB	BN61-01857B	SECC TO.8	1	SA	
(2)	PANEL	BN07-00190B	LTM201U1-L01	1	SA	
(1)	ASSY COVER-FRONT	BN96-02172B	204Ts, SILVER SPRAY	1	SA	
NO	PART/ASSY NAME	CODE NO.	SPEC.	Q'TY	REMARK	SPRAY



Memo

<http://www.wjel.net>

## 6 Electrical Parts List

-You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr/>

### 6-1 LS20BRCAB/XSF

Level	Loc. No.	Code No.	Description & Specification	EA	SA/SNA
0		LS20BRCAB/XSF	204TS,UXD1/S20A0-LBR,20,LCD-MO,CHINA	0	
0.1	M0216	BN90-00742N	ASSY STAND;LS20BRBAB/XAA	1	S.N.A
..2	M0003	BN96-02171B	ASSY STAND P;BR20BS/CS	1	
...3	CCM1	6001-001114	SCREW-MACHINE;FH,+,M4,L6,ZPC(BLK),SWRCH1	4	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-000133	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(BLK),SW	12	S.N.A
...3	M0081	6003-000264	SCREW-TAPTITE;PWH,+,B,M3,L6,ZPC(YEL),SWR	1	
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101	4	S.N.A
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(BLK),SWCH	4	S.N.A
...3	M0081	6003-001238	SCREW-TAPTITE;FH,+,S,M4,L8,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001321	SCREW-TAPTITE;BH,+,B,M4,L8,ZPC(BLK),SWRC	8	
...3		BN61-00429C	HOLDER-CABLE;LBR20BS/CS,ABS+HB,BLACK SPR	1	S.N.A
...3		BN61-00438A	HOLDER-SPRING;NB21BS,ZN-2 DIE CAST	1	S.N.A
...3		BN61-00440A	STOPPER SPRING;NB21BS,SK5	1	S.N.A
...3		BN61-00441A	GUIDE-WASHER/SPRING;NB21BS,SK5	4	S.N.A
...3		BN61-01372A	SPRING ETC-LOCKING RELEASE;1704FP,PI14	1	S.N.A
...3		BN61-01654A	BUSH PIN;NB21BS,SUM24L,5.0,L20,NATURAL	2	S.N.A
...3		BN61-01861A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01862A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01863A	BRACKET-STAND BODY;BR20BS,Zn-II,DIE CAST	1	S.N.A
...3		BN61-01864A	BRACKET-HINGE TOP;BR20BS,Zn-II,DIE CASTI	1	S.N.A
...3		BN61-01865A	BRACKET-RAIL LIFT;BR20BS,SECC T1.6,10,17	2	S.N.A
...3		BN61-01867A	SPRING ETC-SPIRAL;BR20BS,SUS 301,13.0,35	2	S.N.A
...3	CIS4	BN61-01868A	HOLDER-STAND;BR20BS,ZNDC-II	1	S.N.A
...3		BN61-01988A	SPRING ETC-STAND FRICTION;LBR20B,SK-5,11	2	S.N.A
...3		BN63-00723B	COVER-VESA;NB21BS,ABS,HB,GR87	1	S.N.A
...3		BN63-00726C	COVER-HINGE/FRONT;LBR20BS/CS,ABS,HB,BLAC	1	S.N.A
...3		BN63-00728C	COVER-PIVOT;LBR20BS/CS,ABS,HB,BLACK SPRA	1	S.N.A
...3	M0140	BN63-00797A	FELT-STAND;NB21BS,MCM175,T0.5,60,10	3	S.N.A
...3		BN63-02011B	COVER-STAND BASE;BR20BS/CS,ABS,HB,BK07,B	1	S.N.A
...3		BN63-02012B	COVER-STAND FRONT;BR20BS/CS,ABS,HB,BK07,	1	S.N.A
...3		BN63-02013B	COVER-STAND REAR;BR20BS/CS,ABS,HB,BK07,S	1	S.N.A
...3		BN63-02014B	COVER-STAND HINGE;BR20BS/CS,ABS,HB,BK07,	1	S.N.A
...3		BN64-00161A	BUTTON-LOCKING;NB21BS,RUBBER,GRAY,T2.0	1	S.N.A
...3		BN66-00001A	ROLLER-SPRING;NB21BS,ACETAL	2	S.N.A
...3	M0126	BN73-00077A	RUBBER-FOOT;MATISSE,BUMPON,##13.5,T2.0,6	6	S.N.A
...3		BN96-01896A	ASSY HINGE P;NB21BS	1	S.N.A
0.1	M0002	BN90-00721S	ASSY COVER REAR;LS20BRCAB/XSF	1	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	
..2	M0006	BN63-02010D	COVER-REAR;LBR20CS,ABS,T2.8,HB,BK07,BLAC	1	
0.1	M0001	BN90-00794U	ASSY COVER FRONT;LS20BRCAB/XSF	1	S.N.A
..2	T0003	BN96-02172C	ASSY COVER P-FRONT;LBR20CS,ABS+HB,BK07,B	1	
...3	M0112	BN63-02009B	COVER-FRONT;BR20BS/CS,ABS,T2.8,HB,BK07,B	1	S.N.A
...3	T0022	BN64-00380B	KNOB CONTROL;BR20BS/CS,ABS(TRANSPARENT),	1	S.N.A
...3	M0020	BN96-02437A	ASSY BOARD P;BRAHMS,SJ05-01-155,FUNCTION	1	
0.1	T0852	BN91-00841S	ASSY LCD-SPZ;LS20BRB*	1	S.N.A
..2	M0215	BN07-00190B	LCD-PANEL;LTM201U1-L01,NB20BS,8BIT,432*3	1	
0.1	M0112	BN91-00866P	ASSY SHIELD;LS20BRC*	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.N.A
..2	M2893	BN39-00666A	LEAD CONNECTOR;LS20BRBS,UL1571#30,30P,15	1	
..2	M0112	BN96-02173A	ASSY SHIELD P-PCB;BR20BS,SECC	1	S.N.A
...3		BN63-01774A	SHIELD-INSULATOR;BI17/19BS,PET,T0.35	1	S.N.A
...3	T0178	BN63-02015A	SHIELD-PCB;BR20BS,SECC,T0.8	1	S.N.A



6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
..2	CCM1	6001-000352	SCREW-MACHINE;FH,+,M3,L6,NI PLT,SWRCH18A	4	S.N.A
..2	CCMM1	BN73-00091D	SILICON/RUBBER;LBR20BS/CS,SILICON+ALUMIN	1	
0.1	M0017	BN91-00889M	ASSY CHASSIS-SPZ;LS20BRC*,W/W	1	
..2	M0107	BN61-01857B	BRACKET-PCB;BR20BS,SECC,T0.8	1	S.N.A
..2	M0014	BN94-00723B	ASSY PCB MAIN-SPZ;LS20BRC*,W/W	1	
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb,	0.02	S.N.A
...3	CN102	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	
...3	CN501	3711-004712	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA	1	
...3	CN103	3722-001783	JACK-PIN;1P,-,SN,YEL,-	1	
...3	CN104	3722-002275	JACK-DIN;4P,-,SN,BLK,-	1	
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	3	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	S.N.A
...3	T0174	BN97-00580N	ASSY SMD;LS20BRC*	1	S.N.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D105	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D107	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D108	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D109	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D110	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D111	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D112	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D113	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D114	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D117	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D118	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D501	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
...4	D502	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
...4	D503	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
...4	ZD106	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
...4	D115	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
...4	ZD102	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
...4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
...4	ZD104	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
...4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
...4	ZD502	0403-001411	DIODE-ZENER;-5.49-5.73V,200MW,SOD-323,T	1	
...4	ZD101	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
...4	ZD107	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
...4	ZD501	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	
...4	ZD108	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-,-,SMD	1	
...4	ZD109	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-,-,SMD	1	
...4	Q101	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q103	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q501	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q502	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q503	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q504	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q505	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
...4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
...4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
...4	IC104	0801-002267	IC-CMOS LOGIC;74LCX14,-,SOIC,14P,150MIL,	1	
...4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	
...4	IC104	0801-002709	IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP,	1	
...4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
...4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
...4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
...4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
...4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
...4	IC502	1203-002796	IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5	1	

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	T0087	1203-003704	IC-POSI.FIXED REG.:G953-18T6U,SOT-223,3P	1	
....4	T0087	1203-003704	IC-POSI.FIXED REG.:G953-18T6U,SOT-223,3P	1	
....4	R237	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	
....4	R307	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	
....4	R108	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R109	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R202	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R230	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R231	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R232	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R234	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R235	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R301	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R302	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R303	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R304	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R316	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R317	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R318	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R319	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R320	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R321	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R324	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R325	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R354	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R355	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R362	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R363	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R364	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R365	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R376	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R377	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R378	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R379	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R380	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R381	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R382	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R384	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R396	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R397	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R398	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R399	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R3999	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R4000	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R4007	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R4011	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R4012	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R4015	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R410	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R411	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R412	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R413	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R414	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R415	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R416	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R417	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R522	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R525	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R530	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	







Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R388	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R389	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R390	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R391	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R392	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R393	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R394	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R395	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R3997	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R4001	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R4005	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R4008	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R4016	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R501	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R514	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R526	2007-000084	R-CHIP;4.7Kohm,5%,1/10W,TP,1608	1	
....4	R116	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R121	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R126	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R131	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R155	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R206	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3993	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3994	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3995	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3996	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R502	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R503	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R504	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R507	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R510	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R516	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R517	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R518	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R520	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R533	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R534	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R509	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R512	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R519	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R367	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R402	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R222	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R223	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R224	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R225	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R226	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R227	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R228	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R229	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R366	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R407	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R408	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R212	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	
....4	R115	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	
....4	R508	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R511	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R521	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R3991	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R3992	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R203	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	
....4	R104	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R105	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R106	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R218	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R219	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R221	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R101	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R102	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R103	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R401	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	C114	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R146	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R150	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	RA301	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA401	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA402	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA207	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA208	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA209	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA210	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA211	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA212	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA213	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA214	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA215	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA216	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA217	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	C357	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	
....4	C358	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,C0G,1608	1	
....4	C117	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C118	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C119	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C121	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C122	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C123	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C124	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C126	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C203	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C204	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C205	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C206	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C207	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C208	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C210	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C211	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C212	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C213	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C214	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C215	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C216	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C225	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C226	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C227	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C233	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C234	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C235	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C306	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C318	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C320	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C322	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C323	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C325	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C326	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C327	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C329	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C330	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C331	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C333	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C334	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C336	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	





6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C626	2203-000292	C-CER,CHIP;0.01nF,5%,50V,C0G,1608	1	
....4	C107	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	
....4	C308	2203-000440	C-CER,CHIP;1nF,10%,50V,X7R,1608	1	
....4	C201	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	
....4	C202	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	
....4	C417	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	
....4	C418	2203-000626	C-CER,CHIP;0.022nF,5%,50V,C0G,1608	1	
....4	C113	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	
....4	C115	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	
....4	C116	2203-000815	C-CER,CHIP;0.033nF,5%,50V,C0G,1608	1	
....4	C101	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	
....4	C102	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	
....4	C103	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	
....4	C104	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	
....4	C105	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	
....4	C106	2203-000975	C-CER,CHIP;47nF,10%,25V,X7R,TP,1608,-	1	
....4	C151	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C505	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C507	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C522	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C526	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C533	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C534	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C536	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C601	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C602	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C603	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C604	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C605	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C606	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C607	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C608	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C609	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C610	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C611	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C612	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C613	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C614	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C615	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C616	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C617	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C618	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C619	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C620	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C621	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C622	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C623	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C624	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C628	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C629	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C630	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C631	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C632	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C633	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C634	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C635	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C636	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C637	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C638	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C639	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C640	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C641	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C642	2203-005005	C-CER,CHIP;100nF,10%,16V,X7R,1608	1	
....4	C112	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C236	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C508	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C514	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C515	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C520	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C524	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C109	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,1608	1	
....4	C237	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C301	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C303	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C310	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C311	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C312	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C313	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C317	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C319	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C321	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C324	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C328	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C332	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C335	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C347	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C403	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C407	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C415	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C538	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C645	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C646	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C647	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C648	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C501	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C509	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C518	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C305	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C344	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C346	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C401	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C504	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C506	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C519	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C521	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C523	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C525	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C527	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C535	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C537	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C643	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C644	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C209	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C224	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C411	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C512	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	

6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
...4	X301	2801-003326	CRYSTAL-SMD;24MHz,30ppm,28-ABX,16pF,50oh	1	
...4	X201	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16,	1	
...4	X401	2801-004222	CRYSTAL-SMD;27MHz,30PPM,28-AAN,14PF,50OH	1	
...4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4	1	S.N.A
...4	CN301	3711-002049	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
...4	CN602	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	
...4	L503	BN27-00002A	COIL-CHOKE(SMD);47uH,47uH,20%,12*12*8mm,	1	
...4	L501	BN27-00008A	COIL CHOKE-SMD;SMD12*12*8.5,GH15/17PS,22	1	
...4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-.0.	1	
...4	S301	BN32-00005A	SENSOR SW-TILT;SPSF100100,DC5V,1mA,-10 ~	1	
...4	M0018	BN97-00579Q	ASSY MICOM;LS20BRC*,W/W	1	
....5	IC115	1107-001530	IC-FLASH MEMORY;39VF080,1Mx8Bit,TSOP,40P	1	
...4	IC520	0903-001413	IC-MICROCONTROLLER;WT6601F,-,QFP,128P,20	1	S.N.A
...4	IC109	1003-001844	IC-LCD CONTROLLER;MST6281LA-LF-165,LQFP,	1	
...4	IC112	1103-001314	IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2,7/5.	1	
...4	IC113	1105-001674	IC-DRAM;EM6A9320BI,4Mx32Bit,FBGA,144P,12	1	
...4	IC501	1203-002843	IC-DC/DC CONVERTER;AP1501-50K5A,TO-263-5	1	
...4	IC504	1203-002889	IC-DC/DC CONVERTER;AP1501-K5A,TO263-5L,5	1	
...4	IC118	1204-002393	IC-VIDEO PROCESS;S5D2544X,TQFP,160P,28x2	1	
...4	IC402	1204-002419	IC-VIDEO DECODER;TW9906,TQFP,80P,12x12mm	1	
...4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
...4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
...4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
...4	CN502	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
...4	IC304	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	
...4	R144	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	
...4	IC104	0801-002404	IC-CMOS LOGIC;74VHC4066,ANALOG SWITCH,SO	1	
...4	C125	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	
...4	CN302	3711-005477	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD-	1	
...4	R119	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
...4	R120	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
...4	R124	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
...4	R125	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
...4	Q506	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	
...4	IC508	1202-000164	IC-VOLTAGE COMP;393,SOP,8P,150MIL,DUAL,	1	
...4	R536	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
...4	R537	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
...4	R535	2007-000616	R-CHIP;24Kohm,5%,1/10W,TP,1608	1	
...4	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	3.68	S.N.A
...4	T0077	BN41-00607C	PCB MAIN;LS20BRCS,FR-4,4 layer,MP1.2,1.6	1	S.N.A
...3	IC201_HEAT	BN62-00003A	HEAT SINK-IC;NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	IC601_HEAT	BN62-00003A	HEAT SINK-IC;NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	HDCP KEY	BN97-00707A	ASSY HDCP;BN46-00018A,BR20/21BS_CS,MSTAR	1	S.N.A
...4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
..2	M0174	BN44-00127A	IP BOARD;IP-58130A,204T,3.0-5.0MA,6.4 -8	1	
0.1	M0019	BN92-00482K	ASSY LABEL;MO15PS	1	S.N.A
..2	CIS	BN63-00761D	MANUAL-01,QSG;Protection Sheet,SyncMaste	1	S.N.A
0.1	M0113	BN92-01380M	ASSY P/MATERIAL;LS20BRBAS/EDC	1	S.N.A
..2	T0524	6902-000358	BAG PE;HDPE/NITRON(DOUBLE),T0.02/T0.5,W9	1	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-	0.003	S.N.A
..2	P/M	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.91	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.1	S.N.A
0.1	M0045	BN92-01582S	ASSY ACCESSORY;LS20BRCAB/XSF	1	S.N.A
..2	M0114	BN39-00244B	CBF SIGNAL;MO15PS,15P/15P,20276-N,1830MM	1	
..2	M0125	BN39-00246F	CBF SIGNAL-DVI(D);1703FP,24P/24P,20276-D	1	
..2	M0045	BN96-02700M	ASSY ACCESSORY;LS20BRCAB/XSF	1	
...3	T0268	3903-000082	CBF-POWER CORD;DT,CN,IP3/YES(A),(IEC C1	1	
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	ACCESSORY	BH75-00146B	UNIT-07,WARRANTY;CHINA,-,ASSY-W/CARD,BH	1	S.N.A
...4		BH68-00297E	MANUAL-ETC;SAMSUNG BASIC,SAMSUNG,C,CHINA	1	S.N.A
...4	CIS	BH68-00297F	MANUAL-ETC;ENVELOPE,SAMSUNG,C,CHINA,MOJO	1	S.N.A
...3	M0215	BN96-00881P	ASSY MANUAL P-IB+QSG;BR20BS,204Ts,SyncMa	1	S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
...4	M0808	BH68-00376L	MANUAL-04;LCDQUICK SETUP GUIDE,SYNCPASTE	1	S.NA
...4	IB	BN59-00395P	S/W DRIVER-00;IB;BR20BS,204Ts,W/W,SyncMa	1	S.NA
...3	M0113	BH68-70455A	CARD-TESTED GOODS;ALL (CHINA),SAMAUNG,CH	1	S.NA
0.1	M0003	BN92-01587E	ASSY BOX;LS20BRCAB/XSF	1	S.NA
.2	BOX	BN69-01094F	BOX-MONITOR;S/M204Ts(LS20BRC),SY-01,YEL,	1.01	S.NA

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6 Electrical Parts List

6-2 LS20BRCAS/XSH

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LS20BRCAS/XSH	204TS,UXD1/S20A0-LBR,20,LCD-MO,HONG KONG	0	
0.1	M0216	BN90-00742F	ASSY STAND;LS20BRBAS/EDC	1	S.N.A
..2	M0003	BN96-02171A	ASSY STAND P;BR20BS/CS,ABS+HB,GR70,SPRAY	1	
...3	CCM1	6001-001114	SCREW-MACHINE;FH,+,M4,L6,ZPC(BLK),SWRCH1	4	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-000133	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(BLK),SW	12	S.N.A
...3	M0081	6003-000264	SCREW-TAPTITE;PWH,+,B,M3,L6,ZPC(YEL),SWR	1	
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L10,BLK ,SWCH101	4	S.N.A
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(BLK),SWCH	4	S.N.A
...3	M0081	6003-001238	SCREW-TAPTITE;FH,+,S,M4,L8,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001321	SCREW-TAPTITE;BH,+,B,M4,L8,ZPC(BLK),SWRC	8	
...3		BN61-00429A	HOLDER-CABLE;NB21BS,ABS HB,.,SILVER SPR	1	S.N.A
...3		BN61-00438A	HOLDER-SPRING;NB21BS,ZN-2 DIE CAST	1	S.N.A
...3		BN61-00440A	STOPPER SPRING;NB21BS,SK5	1	S.N.A
...3		BN61-00441A	GUIDE-WASHER/SPRING;NB21BS,SK5	4	S.N.A
...3		BN61-01372A	SPRING ETC-LOCKING RELEASE;1704FP,PI14	1	S.N.A
...3		BN61-01654A	BUSH PIN;NB21BS,SUM24L,5.0,L20,NATURAL	2	S.N.A
...3		BN61-01861A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01862A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01863A	BRACKET-STAND BODY;BR20BS,Zn-II,DIE CAST	1	S.N.A
...3		BN61-01864A	BRACKET-HINGE TOP;BR20BS,Zn-II,DIE CASTI	1	S.N.A
...3		BN61-01865A	BRACKET-RAIL LIFT;BR20BS,SECC T1.6,10,17	2	S.N.A
...3		BN61-01867A	SPRING ETC-SPIRAL;BR20BS,SUS 301,19,0.35	2	S.N.A
...3	CIS4	BN61-01868A	HOLDER-STAND;BR20BS,ZNDC-II	1	S.N.A
...3		BN61-01988A	SPRING ETC-STAND FRICTION;LBR20B,SK-5,11	2	S.N.A
...3		BN63-00723A	COVER-VESA;NB21BS,ABS HB,BK07	1	S.N.A
...3		BN63-00726A	COVER-HINGE/FRONT;NB21BS,ABS HB,.,SIL	1	S.N.A
...3		BN63-00728A	COVER-PIVOT;NB21BS,ABS HB,.,SILVER SP	1	S.N.A
...3	M0140	BN63-00797A	FELT-STAND;NB21BS,MCM175,T0.5,60,10	3	S.N.A
...3		BN63-02011A	COVER-STAND BASE;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02012A	COVER-STAND FRONT;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02013A	COVER-STAND REAR;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02014A	COVER-STAND HINGE;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN64-00161A	BUTTON-LOCKING;NB21BS,RUBBER,GRAY,T2.0	1	S.N.A
...3		BN66-00001A	ROLLER-SPRING;NB21BS,ACETAL	2	S.N.A
...3	M0126	BN73-00077A	RUBBER-FOOT;MATISSE,BUMPON,##13.5,T2.0,6	6	S.N.A
...3		BN96-01896A	ASSY HINGE P;NB21BS	1	S.N.A
0.1	M0001	BN90-00755A	ASSY COVER FRONT;LS20BRCAS/EDC	1	S.N.A
..2	T0003	BN96-02172B	ASSY COVER P-FRONT;LBR20CS;(S/M204TS),ABS	1	
...3	M0112	BN63-02009A	COVER-FRONT;BR20BS,ABS,T2.8,HB,SRP,Y	1	S.N.A
...3	T0022	BN64-00380A	KNOB CONTROL;BR20BS,ABS+PC,SPRAY,transp	1	S.N.A
...3	M0020	BN96-02437A	ASSY BOARD P;BRAHMS,SJ03,01-155,FUNCTION	1	
0.1	M0002	BN90-00756B	ASSY COVER REAR;LS20BRCAS/EDC,SILVER	1	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	
..2	M0006	BN63-02010B	COVER-REAR;LBR20CS,ABS,T2.8,HB,GR70,SRPA	1	
0.1	T0852	BN91-00841S	ASSY LCD-SPZ;LS20BRB*	1	S.N.A
..2	M0215	BN07-00190B	LCD-PANEL;LTM201U1-L01,NB20BS,8BIT,432*3	1	
0.1	M0112	BN91-00866P	ASSY SHIELD;LS20BRC*	1	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.N.A
..2	M2893	BN39-00666A	LEAD-CONNECTOR;LS20BRBS,UL1571#30,30P,15	1	
..2	M0112	BN96-02173A	ASSY SHIELD P-PCB;BR20BS,SECC	1	S.N.A
...3		BN63-01774A	SHIELD-INSULATOR;BI1719BS,PET,T0.35	1	S.N.A
...3	T0178	BN63-02115A	SHIELD-PCB;BR20BS,SECC,T0.8	1	S.N.A
..2	CCM1	6001-000352	SCREW-MACHINE;FH,+,M3,L6,NI PLT,SWRCH18A	4	S.N.A
..2	CCMM1	BN73-00091D	SILICON/RUBBER;LBR20BS/CS,SILICON+ALUMIN	1	
0.1	M0017	BN91-00889A	ASSY CHASSIS-SPZ;LS20BRC*,W/W	1	
..2	M0107	BN61-01857B	BRACKET-PCB;BR20BS,SECC,T0.8	1	S.N.A
..2	M0014	BN94-00723B	ASSY PCB MAIN-SPZ;LS20BRC*,W/W	1	
...3	T0245	0202-001366	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb,	0.02	S.N.A
...3	CN102	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	
...3	CN501	3711-004712	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA	1	
...3	CN103	3722-001783	JACK-PIN;1P,-,SN,YEL,-	1	
...3	CN104	3722-002275	JACK-DIN;4P,-,SN,BLK,-	1	
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	3	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	S.N.A
...3	T0174	BN97-00580N	ASSY SMD;LS20BRC*	1	S.N.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D105	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D107	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D108	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D109	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D110	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D111	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D112	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D113	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D114	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D117	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D118	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D501	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D502	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D503	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	ZD106	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D115	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD102	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD104	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD502	0403-001411	DIODE-ZENER;-5.49-5.73V,200MW,SOD-323,T	1	
....4	ZD101	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
....4	ZD107	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
....4	ZD501	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	
....4	ZD108	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,SMD	1	
....4	ZD109	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,SMD	1	
....4	Q101	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q103	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q501	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q502	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q503	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q504	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q505	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
....4	IC104	0801-002267	IC-CMOS LOGIC;74LX14,-,SOIC,14P,150MIL,	1	
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	
....4	IC104	0801-002709	IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP,	1	
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	IC502	1203-002796	IC-DC/DC CONVERTER;AP1501-33K3A,TO-263-5	1	
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	
....4	R237	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	
....4	R307	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	
....4	R108	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R109	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R202	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R230	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R231	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R232	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R234	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R235	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R301	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R302	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R303	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R304	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R316	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R317	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R318	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R319	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R320	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R321	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R324	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R325	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R354	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R355	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R362	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R363	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R364	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R365	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R376	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R377	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R378	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R379	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R380	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	









Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R503	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R504	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R507	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R510	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R516	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R517	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R518	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R520	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R533	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R534	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R509	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R512	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R519	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R367	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R402	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R222	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R223	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R224	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R225	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R226	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R227	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R228	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R229	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R366	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R407	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R408	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R212	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	
....4	R115	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	
....4	R508	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R511	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R521	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R3991	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R3992	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R203	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	
....4	R104	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R105	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R106	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R218	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R219	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R221	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R101	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R102	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R103	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R401	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	C114	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R146	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R150	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	RA301	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA401	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA402	2011-000881	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA207	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA208	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA209	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA210	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA211	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA212	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA213	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA214	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA215	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA216	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA217	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	C357	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	
....4	C358	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	
....4	C117	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C118	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C119	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C121	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C122	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C123	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C124	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C126	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C203	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C204	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C205	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C206	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C207	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C208	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C210	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C211	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C212	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C213	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C214	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	





6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C317	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C319	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C321	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C324	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C328	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C332	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C335	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C347	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C403	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C407	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C415	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C538	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C645	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C646	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C647	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C648	2203-005437	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,3216	1	
....4	C501	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C509	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C518	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C305	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C344	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C346	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C401	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C504	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C506	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C519	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C521	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C523	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C525	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C527	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C535	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C537	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C643	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C644	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C209	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C224	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C411	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C512	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	X301	2801-003326	CRYSTAL-SMD;24MHz,30ppm,28-ABX,16pF,50oh	1	
....4	X201	2801-003267	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16	1	
....4	X401	2801-004222	CRYSTAL-SMD;27MHz,30PPM,28-AAN,14PF,50OH	1	
....4	T0568	3301-000514	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,,,,4	1	S.N.A
....4	CN301	3711-002049	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
....4	CN602	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	
....4	L503	BN27-00002A	COIL-CHOKE(SMD);47uH,47uH,20%,12*12*8mm,	1	
....4	L501	BN27-00008A	COIL CHOKE-SMD;SMD12*12*8.5,GH15/17PS,-0	1	
....4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6,EOS,33UH,15%,-.0	1	
....4	S301	BN32-00005A	SENSOR SW-TILT;SPSF100100,DC5V,1mA,-10 ~	1	
....4	M0018	BN97-00579Q	ASSY MICOM;LS20BRC*,W/W	1	
....5	IC115	1107-001530	IC-FLASH MEMORY;39VF080,1Mx8Bit,TSOP,40P	1	
....4	IC520	0903-001413	IC-MICROCONTROLLER;WT6601F,-,QFP,128P,20	1	S.N.A
....4	IC109	1003-001844	IC-LCD CONTROLLER;MST6281LA-LF-165,LQFP,	1	
....4	IC112	1103-001314	IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2.7/5.	1	
....4	IC113	1105-001674	IC-DRAM;EM6A9320BI,4Mx32Bit,FBGA,144P,12	1	
....4	IC501	1203-002843	IC-DC/DC CONVERTER;AP1501-50K5A,TO-263-5	1	
....4	IC504	1203-002889	IC-DC/DC CONVERTER;AP1501-K5A,TO263-5L,5	1	
....4	IC118	1204-002393	IC-VIDEO PROCESS;S5D2544X,TQFP,160P,28x2	1	
....4	IC402	1204-002419	IC-VIDEO DECODER;TW9906,TQFP,80P,12x12mm	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	CN502	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
....4	IC304	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	
....4	R144	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	
....4	IC104	0801-002404	IC-CMOS LOGIC;74VHC4066,ANALOG SWITCH,SO	1	
....4	C125	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	CN302	3711-005477	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD-	1	
....4	R119	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R120	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R124	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R125	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	Q506	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	
....4	IC508	1202-000164	IC-VOLTAGE COMP.;393,SOP,8P,150MIL,DUAL,	1	
....4	R536	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
....4	R537	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
....4	R535	2007-000616	R-CHIP;24Kohm,5%,1/10W,TP,1608	1	
....4	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	3.68	S.N.A
....4	T0077	BN41-00607C	PCB MAIN;LS20BRCS,FR-4,4 layer,MP1.2,1.6	1	S.N.A
...3	IC201_HEAT	BN62-00003A	HEAT SINK-IC;NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	IC601_HEAT	BN62-00003A	HEAT SINK-IC;NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	HDCP KEY	BN97-00707A	ASSY HDCP;BN46-00018A,BR20/21BS,CS,MSTAR	1	S.N.A
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
..2	M0174	BN44-00127A	IP BOARD;IP-58130A,204T,3.0-5.0MA,6.4 -8	1	
0.1	M0019	BN92-01013E	ASSY LABEL;GS15MSSN/XSH,SEHK,HONGKONG	1	S.N.A
..2	CIS	BN68-00761D	MANUAL-01,QSG;Protection Sheet,SyncMaste	1	S.N.A
0.1	M0113	BN92-01380M	ASSY P/MATERIAL;LS20BRBAS/EDC	1	S.N.A
..2	T0524	6902-000358	BAG PE;HDPE/NITRON(DOUBLE),T0.02/T0.5,W9	1	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-	0.003	S.N.A
..2	P/M	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.91	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.1	S.N.A
0.1	M0003	BN92-01510U	ASSY BOX;LS20BRBAS/XSA	1	S.N.A
..2	BOX	BN69-01094B	BOX-01,MONITOR;S/M204Ts(LS20BRC),CB-SW4,	1.01	S.N.A
0.1	M0045	BN92-01560H	ASSY ACCESSORY;LS20BRBAS/XSH	1	S.N.A
..2	M0114	BN39-00244B	CBF SIGNAL;MO15PS,15P/15P,20276-N,1830MM	1	
..2	M0125	BN39-00246F	CBF SIGNAL-DVI(D);1703FP,24P/24P,20276-D	1	
..2	M0045	BN96-02492V	ASSY ACCESSORY;LS20BRBAS/XSH	1	
...3	T0268	3903-000067	CBF-POWER CORD;DT,GB,GP3/YES(A),(IEC C1	1	
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
...3	M0215	BN96-00881P	ASSY MANUAL P-IB+QSG;BR20BS,204Ts,SyncMa	1	S.N.A
....4	M0808	BH68-00376L	MANUAL-04;LCDQUICK SETUP GUIDE,SYNCHASTE	1	S.N.A
....4	IB	BN59-00395P	SW DRIVER-00,IB;BR20BS,204Ts,WW,SyncMa	1	S.N.A

6-3 LS20BRCASZ/XSA

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LS20BRCASZ/XSA	204TS,UXD1/S20A0-LBR,20,LCD-MO,AUSTRALIA	0	
0.1	M0216	BN90-00742F	ASSY STAND;LS20BRBAS/EDC	1	S.N.A
..2	M0003	BN96-02171A	ASSY STAND P;BR20BS/CS,ABS+HB,GR70,SPRAY	1	
...3	CCM1	6001-001114	SCREW-MACHINE;FH,+,M4,L6,ZPC(BLK),SWRCH1	4	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-000133	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(BLK),SW	12	S.N.A
...3	M0081	6003-000264	SCREW-TAPTITE;PWH,+,B,M3,L6,ZPC(YEL),SWR	1	
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWCH101	4	S.N.A
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(BLK),SWCH	4	S.N.A
...3	M0081	6003-001238	SCREW-TAPTITE;FH,+,S,M4,L8,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001321	SCREW-TAPTITE;BH,+,B,M4,L8,ZPC(BLK),SWRC	8	
...3		BN61-00429A	HOLDER-CABLE;NB21BS,ABS HB,.,SILVER SPR	1	S.N.A
...3		BN61-00438A	HOLDER-SPRING;NB21BS,ZN-2 DIE CAST	1	S.N.A
...3		BN61-00440A	STOPPER SPRING;NB21BS,SK5	1	S.N.A
...3		BN61-00441A	GUIDE-WASHER/SPRING;NB21BS,SK5	4	S.N.A
...3		BN61-01372A	SPRING ETC-LOCKING RELEASE;1704FP,PI14	1	S.N.A
...3		BN61-01654A	BUSH PIN;NB21BS,SUM24L,5.0,L20,NATURAL	2	S.N.A
...3		BN61-01861A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01862A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01863A	BRACKET-STAND BODY;BR20BS,Zn-II,DIE CAST	1	S.N.A
...3		BN61-01864A	BRACKET-HINGE TOP;BR20BS,Zn-II,DIE CASTI	1	S.N.A
...3		BN61-01865A	BRACKET-RAIL LIFT;BR20BS,SECC T1.6,10,17	2	S.N.A
...3		BN61-01867A	SPRING ETC-SPIRAL;BR20BS,SUS 301,19,0.35	2	S.N.A
...3	CIS4	BN61-01868A	HOLDER-STAND;BR20BS,ZNDC-II	1	S.N.A
...3		BN61-01988A	SPRING ETC-STAND FRICTION;LBR20B,SK-5,11	2	S.N.A
...3		BN63-00723A	COVER-VESA;NB21BS,ABS HB,BK07	1	S.N.A
...3		BN63-00726A	COVER-HINGE/FRONT;NB21BS,ABS HB,.,SIL	1	S.N.A
...3		BN63-00728A	COVER-PIVOT;NB21BS,ABS HB,.,SILVER SP	1	S.N.A
...3	M0140	BN63-00797A	FELT-STAND;NB21BS,MCM175,T0.5,60,10	3	S.N.A
...3		BN63-02011A	COVER-STAND BASE;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02012A	COVER-STAND FRONT;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02013A	COVER-STAND REAR;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02014A	COVER-STAND HINGE;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN64-00161A	BUTTON-LOCKING;NB21BS,RUBBER,GRAY,T2.0	1	S.N.A
...3		BN66-00001A	ROLLER-SPRING;NB21BS,ACETAL	2	S.N.A
...3	M0126	BN73-00077A	RUBBER-FOOT;MATISSE,BUMPON,##13.5,T2.0,6	6	S.N.A
...3		BN96-01896A	ASSY HINGE P;NB21BS	1	S.N.A
0.1	M0001	BN90-00755A	ASSY COVER FRONT;LS20BRCAS/EDC	1	S.N.A
..2	T0003	BN96-02172B	ASSY COVER P-FRONT;LBR20CS,(S/M204TS),ABS	1	
...3	M0112	BN63-02009A	COVER-FRONT;BR20BS,ABS,T2.8,HB,SRP,Y	1	S.N.A
...3	T0022	BN64-00380A	KNOB CONTROL;BR20BS,ABS+PC,SPRAY,transp	1	S.N.A
...3	M0020	BN96-02437A	ASSY BOARD P;BRAHMS,SJ05,01-155,FUNCTION	1	
0.1	M0002	BN90-00756B	ASSY COVER REAR;LS20BRCAS/EDC,SILVER	1	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	
..2	M0006	BN63-02010B	COVER-REAR;LBR20CS,ABS,T2.8,HB,GR70,SRPA	1	
0.1	MP1.0	BN91-00349X	ASSY LCD-AMZ;LS20DRB,AU PANEL	1	S.N.A
..2	M0215	BN07-00168A	LCD-PANEL;M201UN02 V3,Brahms,8BIT,432*33	1	
0.1	M0017	BN91-00937H	ASSY CHASSIS-AMZ;LS20BRCASZ/EDC,W/W	1	
..2	M0174	BN44-00127A	IP BOARD;P-58130A,204T,3.0-5.0MA,6.4 ~8	1	
..2	M0107	BN61-01857D	BRACKET-PCB;BR20BS,SECC,T0.8	1	S.N.A
..2	M0014	BN94-00756A	ASSY PCB MAIN-AU,W/W;LS20BRC*,W/W,AU	1	
...3	T0245	0202-001966	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb,	0.02	S.N.A
...3	CN102	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	
...3	CN501	3711-004712	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA	1	
...3	CN103	3722-001783	JACK-PIN;1P,-,SN,YEL,-	1	
...3	CN104	3722-002275	JACK-DIN;4P,-,SN,BLK,-	1	
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	3	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	S.N.A
...3	IC201_HEAT	BN62-00003A	HEAT SINK-IC,NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	IC601_HEAT	BN62-00003A	HEAT SINK-IC,NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	T0174	BN97-00644D	ASSY SMD;LS20BRC*	1	S.N.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D105	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D107	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D108	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D109	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D110	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D111	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D112	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D113	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D114	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D117	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D118	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D501	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D502	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D503	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	ZD106	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D115	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD102	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD104	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD502	0403-001411	DIODE-ZENER;-5.49-5.73V,200MW,SOD-323,T	1	
....4	ZD101	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
....4	ZD107	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
....4	ZD501	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	
....4	ZD108	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-,-,SMD	1	
....4	ZD109	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-,-,SMD	1	
....4	Q101	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q103	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q501	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q502	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q503	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q504	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q505	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
....4	IC104	0801-002267	IC-CMOS LOGIC;74LCX14,-,SOIC,14P,150MIL,	1	
....4	IC104	0801-002404	IC-CMOS LOGIC;74VHC4066,ANALOG SWITCH,SO	1	
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	
....4	IC104	0801-002709	IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP,	1	
....4	IC520	0903-001413	IC-MICROCONTROLLER;WT6601F,-,QFP,128P,20	1	
....4	IC109	1003-001844	IC-LCD CONTROLLER;MST6281LA-LF-165,LQFP,	1	
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
....4	IC112	1103-001314	IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2.7/5.	1	
....4	IC113	1105-001674	IC-DRAM;EM6A9320BI,4Mx32Bit,FBGA,144P,12	1	
....4	IC304	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	IC502	1203-002796	IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5	1	
....4	IC501	1203-002843	IC-DC/DC CONVERTER;AP1501-50K5A,TO-263-5	1	
....4	IC504	1203-002889	IC-DC/DC CONVERTER;AP1501-K5A,TO263-5L,5	1	
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	
....4	IC118	1204-002393	IC-VIDEO PROCESS;S552544X,TQFP,160P,28x2	1	
....4	IC402	1204-002419	IC-VIDEO DECODER;TW9906,TQFP,80P,12x12mm	1	
....4	R237	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	
....4	R307	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	
....4	R108	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R109	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R202	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R230	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R231	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R232	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R234	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R235	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R301	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R302	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R303	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R304	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R316	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R317	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R318	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R319	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R320	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R321	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R324	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R325	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R354	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R355	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R362	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R363	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R364	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R365	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R376	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	

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Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R3994	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3995	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3996	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R502	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R503	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R504	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R507	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R510	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R516	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R517	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R518	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R520	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R533	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R534	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R509	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R512	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R519	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R367	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R402	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R222	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R223	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R224	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R225	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R226	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R227	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R228	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R229	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R366	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R407	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R408	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R212	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	
....4	R115	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	
....4	R119	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R120	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R124	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R125	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R508	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R511	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R521	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R3991	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R3992	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R203	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	
....4	R144	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	
....4	R104	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R105	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R106	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R218	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R219	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R221	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R101	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R102	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R103	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R401	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	C114	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R146	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R150	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	RA301	2011-000681	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA401	2011-000681	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA402	2011-000681	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA207	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA208	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA209	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA210	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA211	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA212	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA213	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA214	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA215	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA216	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA217	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	C357	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	
....4	C358	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	
....4	C117	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C118	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C119	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C121	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C122	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C123	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C124	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C126	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C203	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C204	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	





6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C524	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C109	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,1608	1	
....4	C237	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C301	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C303	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C310	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C311	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C312	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C313	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C317	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C319	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C321	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C324	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C328	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C332	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C335	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C347	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C403	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C407	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C415	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C538	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C645	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C646	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C647	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C648	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C501	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C509	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C518	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C125	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	
....4	C305	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C344	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C346	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C401	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C504	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C506	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C519	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C521	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C523	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C525	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C527	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C535	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C537	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C643	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C644	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C209	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C224	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C411	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C512	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	X301	2801-003326	CRYSTAL-SMD;24MHz,30ppm,28-ABX,16pF,50oh	1	
....4	X201	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16	1	
....4	X401	2801-004222	CRYSTAL-SMD;27MHZ,30PPM,28-AAN,14PF,50OH	1	
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,4	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	CN301	3711-002049	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
....4	CN602	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	
....4	CN302	3711-005477	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD	1	
....4	CN502	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
....4	L503	BN27-00002A	COIL-CHOKE(SMD);47uH,47uH,20%,12*12*8mm,	1	
....4	L501	BN27-00008A	COIL CHOKE-SMD;SMD12*12*8.5.GH15/17PS,22	1	
....4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6.EOS,33UH,15%,-,0.	1	
....4	S301	BN32-00005A	SENSOR SW-TILT;SPSF100100.DC5V,1mA,-10 ~	1	
....4	MICOM	BN97-00642F	ASSY MICOM-W/W,AU;LS20BRC*,W/W,AU PANEL	1	
....5	IC115	1107-001530	IC-FLASH MEMORY;39VF080,1Mx8Bit,TSOP,40P	1	
....4	Q506	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	

S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	IC508	1202-000164	IC-VOLTAGE COMP.;:393,SOP,8P,150MIL,DUAL,	1	
....4	R536	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
....4	R537	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
....4	R535	2007-000616	R-CHIP;24Kohm,5%,1/10W,TP,1608	1	
....4	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	3.68	S.N.A
....4	T0077	BN41-00607C	PCB MAIN;LS20BRCS,FR-4,4 layer,MP1.2,1.6	1	S.N.A
....3	HDCP KEY	BN97-00707A	ASSY HDCP;BN46-00018A,BR20/21BS_CS,MSTAR	1	S.N.A
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
0.1		BN91-00950A	ASSY SHIELD-AU;LS20BRCSZ/EDC	1	S.N.A
..2	CCM1	6001-000352	SCREW-MACHINE;FH,+,M3,L6,NI PLT,SWRCH18A	4	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.N.A
..2	M2893	BN39-00513A	LEAD CONNECTOR;MJ17AS(BS),UL1571#30,UL/C	1	
..2	CCMM1	BN73-00091D	SILICON/RUBBER;LBR20BS/CS,SILICON+ALUMIN	1	
..2	M0112	BN96-02173B	ASSY SHIELD P-PCB;BR20BS,SECC	1	S.N.A
....3		BN63-01774A	SHIELD-INSULATOR;BI17/19BS,PET,T0.35	1	S.N.A
....3	T0178	BN63-02015B	SHIELD-PCB;BR20BS,SECC,T0.8	1	S.N.A
..2	T0081	BN73-00031A	RUBBER CUSHION;LCD TV/MONITOR,RUBBER,40X	1	S.N.A
..2	CCMM1	BN73-00116A	SILICON/RUBBER;LBR20BS/CS,SILICON+ALUMIN	4	
0.1	M0113	BN92-01380M	ASSY P/MATERIAL;LS20BRBAS/EDC	1	S.N.A
..2	T0524	6902-000358	BAG PE;HDPE/NITRON(DOUBLE),T0.02/T0.5,W9	1	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-	0.003	S.N.A
..2	P/M	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.91	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.1	S.N.A
0.1	M0003	BN92-01510U	ASSY BOX;LS20BRCS/XSA	1	S.N.A
..2	BOX	BN69-01094B	BOX-01,MONITOR;S/M204Ts(LS20BRC),CB-SW4,	1.01	S.N.A
0.1	M0045	BN92-01519A	ASSY ACCESSORY;LS20BRCS/XSA	1	S.N.A
..2	M0045	BN96-02328S	ASSY ACCESSORY;LS20BRCS/XSA	1	
....3	T0268	3903-000204	CBF-POWER CORD;DT,AU,IP3/YES,I(IEC C13/C	1	
....3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
....3	M0215	BN96-00881P	ASSY MANUAL P-IB+QSG;BR20BS,204Ts,SyncMa	1	S.N.A
....4	M0808	BH68-00376L	MANUAL-04;LCDQUICK SETUP GUIDE,SYNCMASTE	1	S.N.A
....4	IB	BN59-00395P	SW DRIVER-00,IB;BR20BS,204Ts,W/W,SyncMa	1	S.N.A
....3	ACCESSORY	BP68-00274B	MANUAL-02,WARRANTY CARD;VD ALL MODEL,Aus	1	S.N.A
..2	M0114	BN39-00244B	CBF SIGNAL;MO15PS,15P/15P,20276-N,1830MM	1	
..2	M0125	BN39-00246F	CBF SIGNAL-DVI(D);1703FP,24P/24P,20276-D	1	
0.1	M0019	BN92-01604A	ASSY LABEL;BR20CS/ADC	1	S.N.A



6-4 LS20BRCASZ/EDC

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
0		LS20BRCASZ/EDC	204TS,UXD1/S20A0-LBR,20,LCD-MO,NETHERLAN	0	
0.1	M0216	BN90-00742F	ASSY STAND;LS20BRBAS/EDC	1	S.N.A
..2	M0003	BN96-02171A	ASSY STAND P;BR20BS/CS,ABS+HB,GR70,SPRAY	1	
...3	CCM1	6001-001114	SCREW-MACHINE;FH,+,M4,L6,ZPC(BLK),SWRCH1	4	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-000133	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(BLK),SW	12	S.N.A
...3	M0081	6003-000264	SCREW-TAPTITE;PWH,+,B,M3,L6,ZPC(YEL),SWR	1	
...3	M0081	6003-000275	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWCH101	4	S.N.A
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,B,M3,L8,ZPC(BLK),SWCH	4	S.N.A
...3	M0081	6003-001238	SCREW-TAPTITE;FH,+,S,M4,L8,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001321	SCREW-TAPTITE;BH,+,B,M4,L8,ZPC(BLK),SWRC	8	
...3		BN61-00429A	HOLDER-CABLE;NB21BS,ABS HB,.,SILVER SPR	1	S.N.A
...3		BN61-00438A	HOLDER-SPRING;NB21BS,ZN-2 DIE CAST	1	S.N.A
...3		BN61-00440A	STOPPER SPRING;NB21BS,SK5	1	S.N.A
...3		BN61-00441A	GUIDE-WASHER/SPRING;NB21BS,SK5	4	S.N.A
...3		BN61-01372A	SPRING ETC-LOCKING RELEASE;1704FP,PI14	1	S.N.A
...3		BN61-01654A	BUSH PIN;NB21BS,SUM24L,5.0,L20,NATURAL	2	S.N.A
...3		BN61-01861A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01862A	GUIDE-STAND LIFT;BR20BS,Zn-II,DIE CASTIN	1	S.N.A
...3		BN61-01863A	BRACKET-STAND BODY;BR20BS,Zn-II,DIE CAST	1	S.N.A
...3		BN61-01864A	BRACKET-HINGE TOP;BR20BS,Zn-II,DIE CASTI	1	S.N.A
...3		BN61-01865A	BRACKET-RAIL LIFT;BR20BS,SECC T1.6,10,17	2	S.N.A
...3		BN61-01867A	SPRING ETC-SPIRAL;BR20BS,SUS 301,19,0.35	2	S.N.A
...3	CIS4	BN61-01868A	HOLDER-STAND;BR20BS,ZNDC-II	1	S.N.A
...3		BN61-01988A	SPRING ETC-STAND FRICTION;LBR20B,SK-5,11	2	S.N.A
...3		BN63-00723A	COVER-VESA;NB21BS,ABS HB,BK07	1	S.N.A
...3		BN63-00726A	COVER-HINGE/FRONT;NB21BS,ABS HB,.,SIL	1	S.N.A
...3		BN63-00728A	COVER-PIVOT;NB21BS,ABS HB,.,SILVER SP	1	S.N.A
...3	M0140	BN63-00797A	FELT-STAND;NB21BS,MCM175,T0.5,60,10	3	S.N.A
...3		BN63-02011A	COVER-STAND BASE;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02012A	COVER-STAND FRONT;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02013A	COVER-STAND REAR;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN63-02014A	COVER-STAND HINGE;BR20BS,ABS,HB,SPRAY	1	S.N.A
...3		BN64-00161A	BUTTON-LOCKING;NB21BS,RUBBER,GRAY,T2.0	1	S.N.A
...3		BN66-00001A	ROLLER-SPRING;NB21BS,ACETAL	2	S.N.A
...3	M0126	BN73-00077A	RUBBER-FOOT;MATISSE,BUMPON,##13.5,T2.0,6	6	S.N.A
...3		BN96-01896A	ASSY HINGE P;NB21BS	1	S.N.A
0.1	M0001	BN90-00755A	ASSY COVER FRONT;LS20BRCAS/EDC	1	S.N.A
..2	T0003	BN96-02172B	ASSY COVER P-FRONT;LBR20CS;(S/M204TS),ABS	1	
...3	M0112	BN63-02009A	COVER-FRONT;BR20BS,ABS,T2.8,HB,SRP,Y	1	S.N.A
...3	T0022	BN64-00380A	KNOB CONTROL;BR20BS,ABS+PC,SPRAY,transp	1	S.N.A
...3	M0020	BN96-02437A	ASSY BOARD P;BRAHMS,SJ05-01-155,FUNCTION	1	
0.1	M0002	BN90-00756B	ASSY COVER REAR;LS20BRCAS/EDC,SILVER	1	S.N.A
..2	M0081	6003-000337	SCREW-TAPTITE;BH,+,S,M4,L10,ZPC(BLK),SWR	4	
..2	M0006	BN63-02010B	COVER-REAR;LBR20CS,ABS,T2.8,HB,GR70,SRPA	1	
0.1	MP1.0	BN91-00349X	ASSY LCD-AMZ;LS20DRB,AU PANEL	1	S.N.A
..2	M0215	BN07-00168A	LCD-PANEL;M201UN02 V3,Brahms,8BIT,432*33	1	
0.1	M0017	BN91-00937H	ASSY CHASSIS-AMZ;LS20BRCASZ/EDC,W/W	1	
..2	M0174	BN44-00127A	IP BOARD;P-58130A,204T,3.0-5.0MA,6.4 ~8	1	
..2	M0107	BN61-01857D	BRACKET-PCB;BR20BS,SECC,T0.8	1	S.N.A
..2	M0014	BN94-00756A	ASSY PCB MAIN-AU,W/W;LS20BRC*,W/W,AU	1	
...3	T0245	0202-001966	SOLDER-WIRE FLUX;-RS60S,D1.2,63Sn/37Pb,	0.02	S.N.A
...3	CN102	3701-001173	CONNECTOR-DVI;24P,3R,FEMALE,ANGLE,AUF	1	
...3	CN101	3701-001219	CONNECTOR-DSUB;15P,3R,FEMALE,ANGLE,AUF	1	
...3	CN501	3711-004712	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,STRA	1	
...3	CN103	3722-001783	JACK-PIN;1P,-,SN,YEL,-	1	
...3	CN104	3722-002275	JACK-DIN;4P,-,SN,BLK,-	1	
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	3	S.N.A
...3	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	4	S.N.A
...3	M0081	6003-001439	SCREW-TAPTITE;BH,+,S,M4,L8,ZPC(YEL)	1	S.N.A
...3	IC201_HEAT	BN62-00003A	HEAT SINK-IC,NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	IC601_HEAT	BN62-00003A	HEAT SINK-IC,NK,SUN,A6063S,T2.5,W28,L28,	1	S.N.A
...3	T0174	BN97-00644D	ASSY SMD;LS20BRC*	1	S.N.A
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D103	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D104	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D105	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D106	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D107	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D108	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D109	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D110	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D111	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D112	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D113	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D114	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
...4	D117	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	D118	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200MA,SO	1	
....4	D501	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D502	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D503	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	ZD106	0402-000553	DIODE-RECTIFIER;SS24,40V,2.0A,DO-214AA	1	
....4	D115	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD102	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD104	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225MW,SOT-2	1	
....4	ZD502	0403-001411	DIODE-ZENER;-5.49-5.73V,200MW,SOD-323,T	1	
....4	ZD101	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
....4	ZD107	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	
....4	ZD501	0406-001061	DIODE-TVS;MMQA5V6T3,5.32/5.6/5.88V,24W,S	1	
....4	ZD108	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-,-,SMD	1	
....4	ZD109	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-,-,SMD	1	
....4	Q101	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q102	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q103	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q501	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q502	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q503	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q504	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q505	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
....4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	
....4	IC104	0801-002267	IC-CMOS LOGIC;74LCX14,-,SOIC,14P,150MIL,	1	
....4	IC104	0801-002404	IC-CMOS LOGIC;74VHC4066,ANALOG SWITCH,SO	1	
....4	IC104	0801-002478	IC-CMOS LOGIC;7SZ14,SCHMITT TRIGGER,SOT2	1	
....4	IC104	0801-002709	IC-CMOS LOGIC;74HC373,D FLIP-FLOP,TSSOP,	1	
....4	IC520	0903-001413	IC-MICROCONTROLLER;WT6601F,-,QFP,128P,20	1	
....4	IC109	1003-001844	IC-LCD CONTROLLER;MST6281LA-LF-165,LQFP,	1	
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
....4	IC112	1103-000129	IC-EEPROM;24C02,256x8,SOP,8P,5x4mm,4.5/5	1	
....4	IC112	1103-001314	IC-EEPROM;24C16,2Kx8,SOP,8P,5x4mm,2.7/5.	1	
....4	IC113	1105-001674	IC-DRAM;EM6A9320BI,4Mx32Bit,FBGA,144P,12	1	
....4	IC304	1203-001559	IC-RESET;DS1834A,SOIC,8P,150MIL,PLASTIC,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	T0087	1203-002351	IC-POSI.FIXED REG.;LF25C,DPAK,3P,240MIL,	1	
....4	IC502	1203-002796	IC-DC/DC CONVERTER;AP1501-33K5A,TO-263-5	1	
....4	IC501	1203-002843	IC-DC/DC CONVERTER;AP1501-50K5A,TO-263-5	1	
....4	IC504	1203-002889	IC-DC/DC CONVERTER;AP1501-K5A,TO263-5L,5	1	
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	
....4	T0087	1203-003704	IC-POSI.FIXED REG.;G953-18T6U,SOT-223,3P	1	
....4	IC118	1204-002393	IC-VIDEO PROCESS;S552544X,TQFP,160P,28x2	1	
....4	IC402	1204-002419	IC-VIDEO DECODER;TW9906,TQFP,80P,12x12mm	1	
....4	R237	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	
....4	R307	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	
....4	R108	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R109	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R111	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R114	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R202	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R230	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R231	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R232	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R233	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R234	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R235	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R248	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R301	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R302	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R303	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R304	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R316	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R317	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R318	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R319	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R320	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R321	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R322	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R323	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R324	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R325	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R354	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R355	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R362	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R363	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R364	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R365	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	
....4	R376	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	

S.N.A







Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	R3994	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3995	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R3996	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R502	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R503	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R504	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R507	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R510	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R516	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R517	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R518	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R520	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R533	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R534	2007-000090	R-CHIP;10Kohm,5%,1/10W,TP,1608	1	
....4	R509	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R512	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R519	2007-000102	R-CHIP;100Kohm,5%,1/10W,TP,1608	1	
....4	R367	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R402	2007-000109	R-CHIP;1Mohm,5%,1/10W,TP,1608	1	
....4	R222	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R223	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R224	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R225	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R226	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R227	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R228	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R229	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R366	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R407	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R408	2007-000113	R-CHIP;33ohm,5%,1/10W,TP,1608	1	
....4	R212	2007-000119	R-CHIP;560ohm,5%,1/10W,TP,1608	1	
....4	R115	2007-000124	R-CHIP;2.2Kohm,5%,1/10W,TP,1608	1	
....4	R119	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R120	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R124	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R125	2007-000126	R-CHIP;4.3Kohm,5%,1/10W,TP,1608	1	
....4	R508	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R511	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R521	2007-000134	R-CHIP;33Kohm,5%,1/10W,TP,1608	1	
....4	R3991	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R3992	2007-000570	R-CHIP;220OHM,1%,1/10W,TP,1608	1	
....4	R203	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	
....4	R144	2007-001002	R-CHIP;510ohm,5%,1/10W,TP,1608	1	
....4	R104	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R105	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R106	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R218	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R219	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R221	2007-001134	R-CHIP;68ohm,5%,1/10W,TP,1608	1	
....4	R101	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R102	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R103	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	R401	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	
....4	C114	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R146	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	R150	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	
....4	RA301	2011-000681	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA401	2011-000681	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA402	2011-000681	R-NET;33ohm,5%,1/16W,L,CHIP,8P,TP,3.2x1.	1	
....4	RA207	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA208	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA209	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA210	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA211	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA212	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA213	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA214	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA215	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA216	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	RA217	2011-001193	R-NET;68ohm,5%,1/16W,L,CHIP,8P,TP	1	
....4	C357	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	
....4	C358	2203-000041	C-CER,CHIP;0.01nF,0.25pF,50V,COG,1608	1	
....4	C117	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C118	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C119	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C121	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C122	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C123	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C124	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C126	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C203	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	
....4	C204	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	







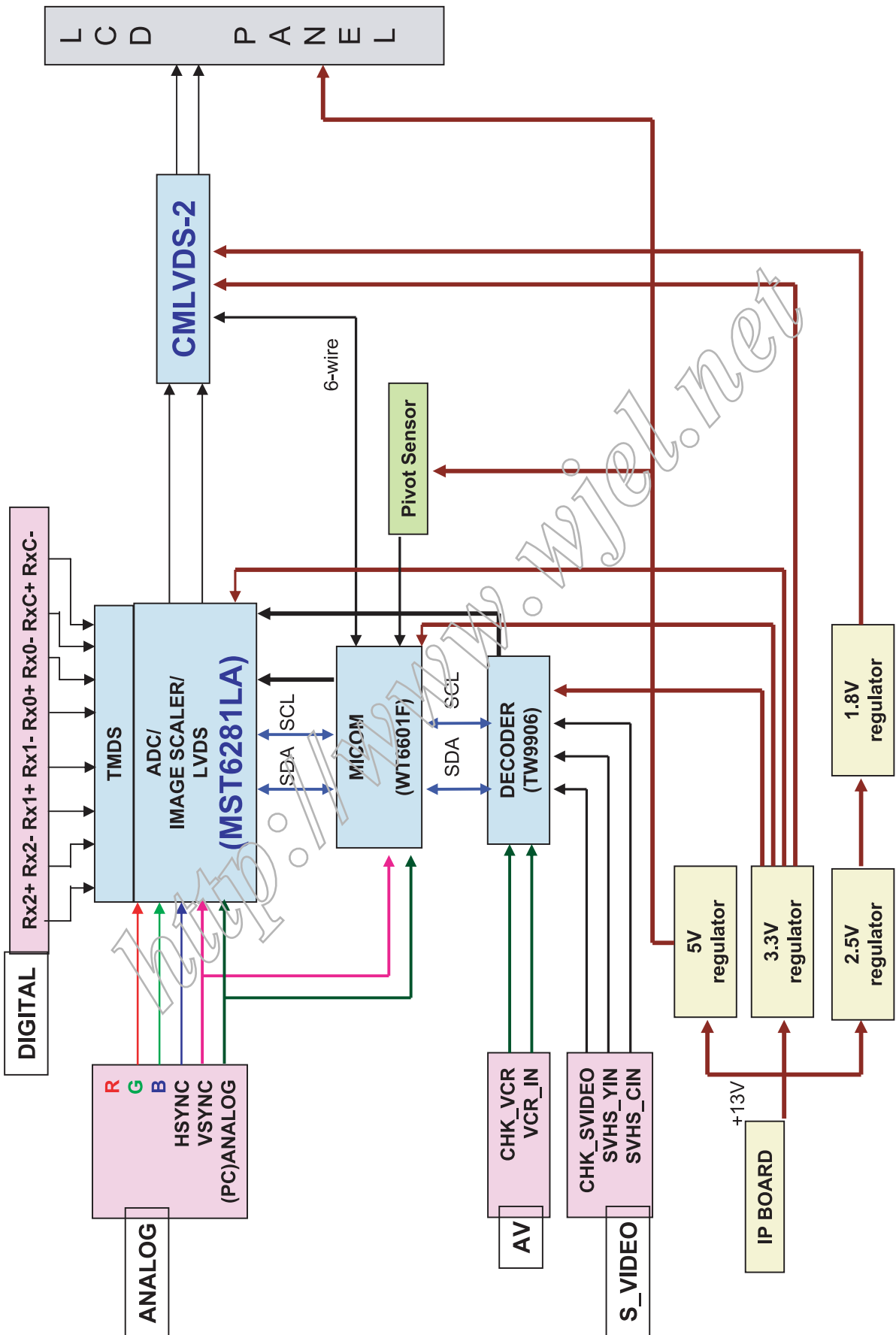
6 Electrical Parts List

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	C524	2203-005065	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1608	1	
....4	C109	2203-005194	C-CER,CHIP;0.22nF,10%,50V,X7R,1608	1	
....4	C237	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C301	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C303	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C310	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C311	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C312	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C313	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C317	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C319	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C321	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C324	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C328	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C332	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C335	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C347	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C403	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C407	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C415	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C538	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C645	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C646	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C647	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C648	2203-005437	C-CER,CHIP;10000nF,+80-20%,10V,Y5V,3216	1	
....4	C501	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C509	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C518	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	
....4	C125	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	
....4	C305	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C344	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C346	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C401	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C504	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C506	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C519	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C521	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C523	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C525	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C527	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C535	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C537	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C643	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C644	2402-001128	C-AL,SMD;100UF,20%,16V,WT,TP,6.3X5.7MM	1	
....4	C209	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C224	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C411	2409-001049	C-ORGANIC;47UF,20%,6.3V,FX,TP,5X5.9MM,-	1	
....4	C512	2409-001065	C-ORGANIC;82UF,20%,16V,WT,TP,8X6.9MM,-	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	
....4	X301	2801-003326	CRYSTAL-SMD;24MHz,30ppm,28-ABX,16pF,50oh	1	
....4	X201	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16	1	
....4	X401	2801-004222	CRYSTAL-SMD;27MHZ,30PPM,28-AAN,14PF,50OH	1	
....4	T0568	3301-000314	BEAD-SMD;120ohm,1.6x0.8x0.8mm,150mA,....,4	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	
....4	CN301	3711-002049	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
....4	CN602	3711-005470	HEADER-BOARD TO CABLE;BOX,30P,1R,1.25mm,	1	
....4	CN302	3711-005477	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD	1	
....4	CN502	3711-005543	HEADER-BOARD TO CABLE;BOX,6P,1R,1.25mm,S	1	
....4	L503	BN27-00002A	COIL-CHOKE(SMD);47uH,47uH,20%,12*12*8mm,	1	
....4	L501	BN27-00008A	COIL CHOKE-SMD;SMD12*12*8.5.GH15/17PS,22	1	
....4	T0010	BN27-00009A	COIL CHOKE;SMD 12X12X6.EOS,33UH,15%,-.0	1	
....4	S301	BN32-00005A	SENSOR SW-TILT;SPSF100100.DC5V,1mA,-10 ~	1	
....4	MICOM	BN97-00642F	ASSY MICOM-W/W,AU;LS20BRC*,W/W,AU PANEL	1	
....5	IC115	1107-001530	IC-FLASH MEMORY;39VF080,1Mx8Bit,TSOP,40P	1	
....4	Q506	0501-000342	TR-SMALL SIGNAL;KSC1623-Y,NPN,200mW,SOT-	1	

S.N.A

Level	Loc. No.	Code No.	Description & Specification	Q'ty	SA/SNA
....4	IC508	1202-000164	IC-VOLTAGE COMP.;:393,SOP,8P,150MIL,DUAL,	1	
....4	R536	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
....4	R537	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	
....4	R535	2007-000616	R-CHIP;24Kohm,5%,1/10W,TP,1608	1	
....4	CIS5	0202-001375	SOLDER-CREAM;RMA-20-21L,S63,-,Sn63/Pb36.	3.68	S.N.A
....4	T0077	BN41-00607C	PCB MAIN;LS20BRCS,FR-4,4 layer,MP1.2,1.6	1	S.N.A
....3	HDCP KEY	BN97-00707A	ASSY HDCP;BN46-00018A,BR20/21BS_CS,MSTAR	1	S.N.A
....4		BN46-00018A	KEY CODE-CERTIFICATE;(HDCP KEY)PPM42M5S,	1	S.N.A
0.1		BN91-00950A	ASSY SHIELD-AU;LS20BRCS/EDC	1	S.N.A
..2	CCM1	6001-000352	SCREW-MACHINE;FH,+,M3,L6,NI PLT,SWRCH18A	4	S.N.A
..2	M0081	6003-000115	SCREW-TAPTITE;BH,+,B,M3,L6,ZPC(BLK),SWRC	2	S.N.A
..2	M2893	BN39-00513A	LEAD CONNECTOR;MJ17AS(BS),UL1571#30,UL/C	1	
..2	CCMM1	BN73-00091D	SILICON/RUBBER;LBR20BS/CS,SILICON+ALUMIN	1	
..2	M0112	BN96-02173B	ASSY SHIELD P-PCB;BR20BS,SECC	1	S.N.A
....3		BN63-01774A	SHIELD-INSULATOR;BI17/19BS,PET,T0.35	1	S.N.A
....3	T0178	BN63-02015B	SHIELD-PCB;BR20BS,SECC,T0.8	1	S.N.A
..2	T0081	BN73-00031A	RUBBER CUSHION;LCD TV/MONITOR,RUBBER,40X	1	S.N.A
..2	CCMM1	BN73-00116A	SILICON/RUBBER;LBR20BS/CS,SILICON+ALUMIN	4	
0.1	M0113	BN92-01380M	ASSY P/MATERIAL;LS20BRBAS/EDC	1	S.N.A
..2	T0524	6902-000358	BAG PE;HDPE/NITRON(DOUBLE),T0.02/T0.5,W9	1	S.N.A
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,-	0.003	S.N.A
..2	P/M	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.91	S.N.A
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.1	S.N.A
0.1	M0003	BN92-01492Q	ASSY BOX;LS20BRCS/EDC	1	S.N.A
..2	BOX	BN69-01094B	BOX-01,MONITOR;S/M204Ts(LS20BRC),CB-SW4,	1.02	S.N.A
0.1	M0045	BN92-01493Q	ASSY ACCESSORY;LS20BRBAS/EDC	1	S.N.A
..2	M0045	BN96-02129Y	ASSY ACCESSORY;LS20BRBAS/EDC	1	
....3	T0268	3903-000042	CBF-POWER CORD;DT,EU,FP3/YES,IEC320 C13/	1	
....3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A
....3	ACCESSORY	BH68-70438A	CARD-11,BLOC WARRANTY;TFT LCD,BASIC,EU,M	1	S.N.A
....3	ACCESSORY	BH68-70448A	CARD-01:TFT LCD,SRC,RUSSIA,S/W,120,W210*	1	S.N.A
....3	M0215	BN96-00881P	ASSY MANUAL P-IB+QSG;BR20BS,204Ts,SyncMa	1	S.N.A
....4	M0808	BH68-00376L	MANUAL-04;LCDQUICK SETUP GUIDE,SYNCASTE	1	S.N.A
....4	IB	BN59-00395P	S/W DRIVER-00,IB;BR20BS,204Ts,W/W,SyncMa	1	S.N.A
....3	T0059	BN68-00907A	MANUAL-CARD;COMM,SAMSUNG,18 LANG,EUROPE,	1	S.N.A
..2	M0114	BN39-00244B	CBF SIGNAL;M015PS,15P/15P,20276-N,1830MM	1	
..2	M0125	BN39-00246F	CBF SIGNAL-DVI(D);1703FP,24P/24P,20276-D	1	
0.1	M0019	BN92-01585B	ASSY LABEL;LS19DOWSS/EDC,T0.099,DO19WS	1	S.N.A

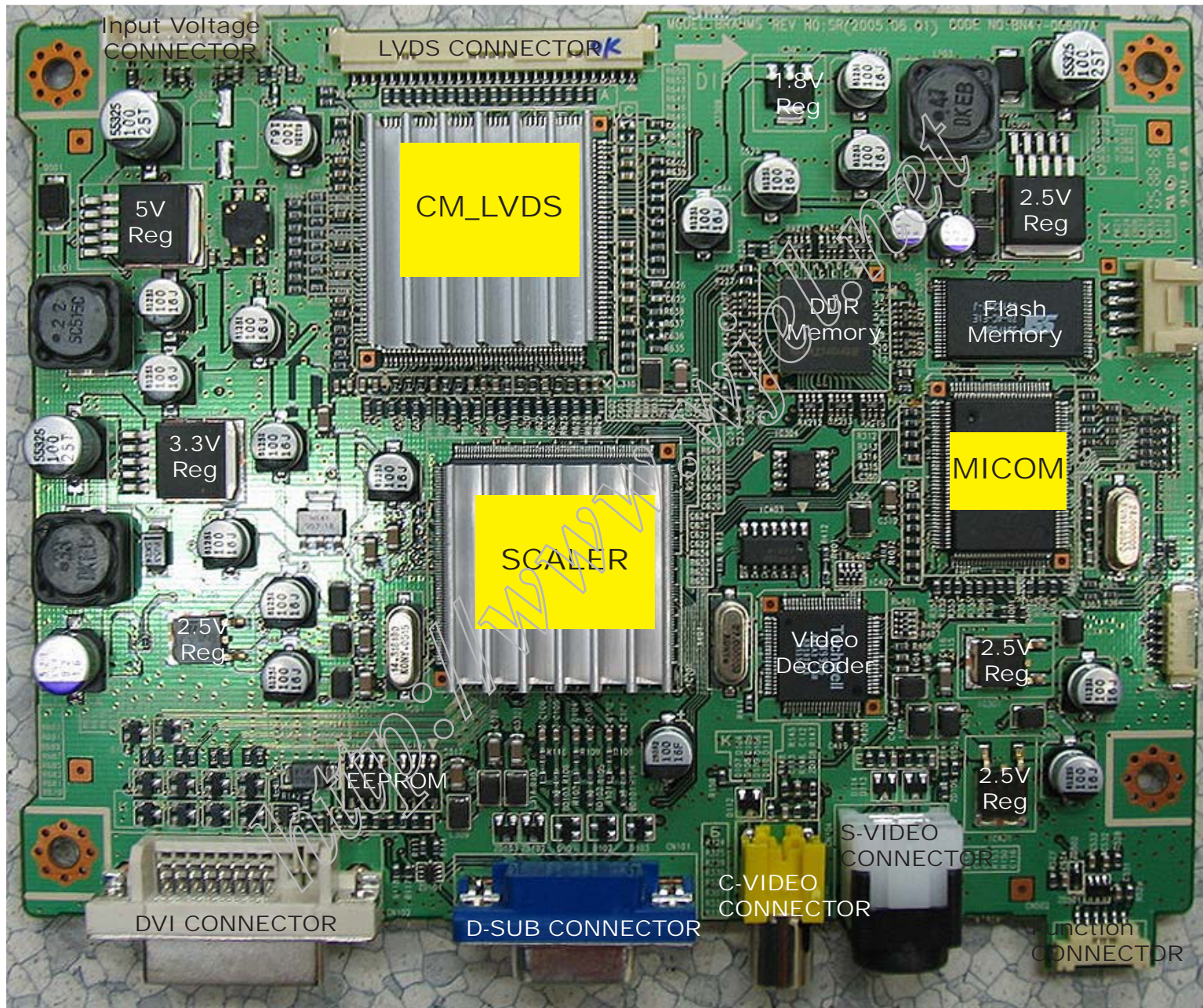
7 Block Diagram



Memo

<http://www.wjel.net>

12 PCB Diagram



<http://www.wjel.net>

## 8 Wiring Diagram

1	RX2-
2	RX2+
3	GND
4	NC
5	NC
6	SCL_DDC_D
7	SDA_DDC_D
8	NC
9	RX1-
10	RX1+
11	GND
12	NC
13	NC
14	+5V_DDC_D
15	CHK_DVI
16	HDCP_HOTPLUG
17	RX0-
18	RX0+
19	GND
20	NC
21	NC
22	GND
23	RXC+
24	RXC-
25	GND
26	GND

**CN102**  
To Analog  
Connector

1	GND
2	CHK_VCR(SWITCH)
3	VCR_IN

**CN103**  
To Video  
Connector

1	R+ IN_A
2	G+ IN_A
3	B+ IN_A
4	NC
5	GND
6	R- IN_A
7	G- IN_A
8	B- IN_A
9	+5V_DDC_A
10	CHK_DSUB
11	NC
12	SDA_DDC_A
13	HSYNC_IN_A
14	VSYNC_IN_A
15	SCL_DDC_A

**CN101**  
To DVI  
Connector

1	GND
2	GND
3	GND
4	SVHS_VIN
5	SVHS_CIN
6	CHK_SVIDEO
7	CHK_SVIDEO (SWITCH)

**CN104**  
To S-Video  
Connector

1	BRT_CTL
2	GND
3	GND
4	GND
5	+13V_IN
6	+13V_IN
7	+13V_IN
8	GND
9	BL_EN

**CN501**  
To IP  
Board

1	GND
2	KEY1
3	KEY2
4	LED_GREEN
5	POWER_KEY
6	+3.3V_MICOM
7	GND
8	GND

**CN502**  
To Function

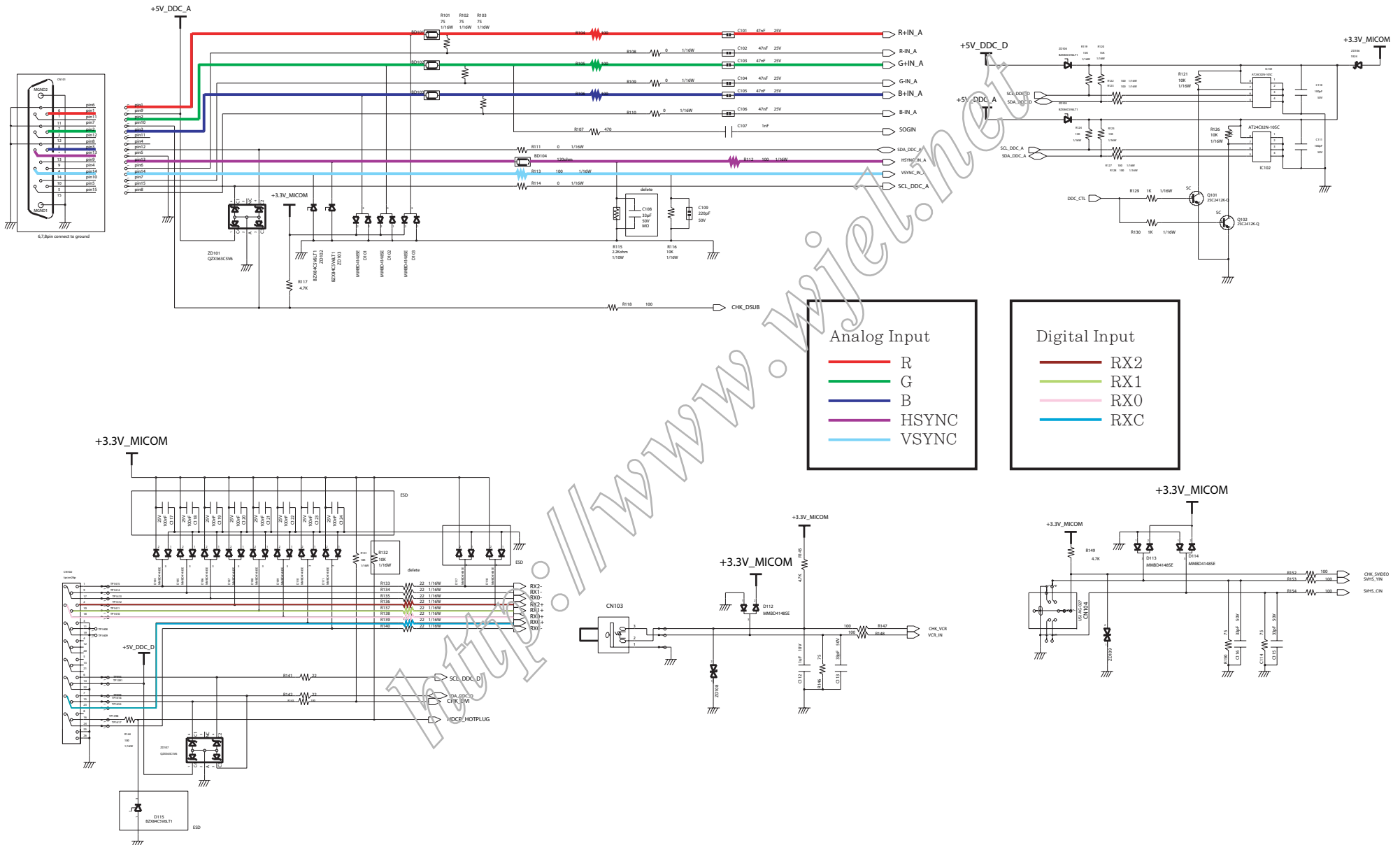
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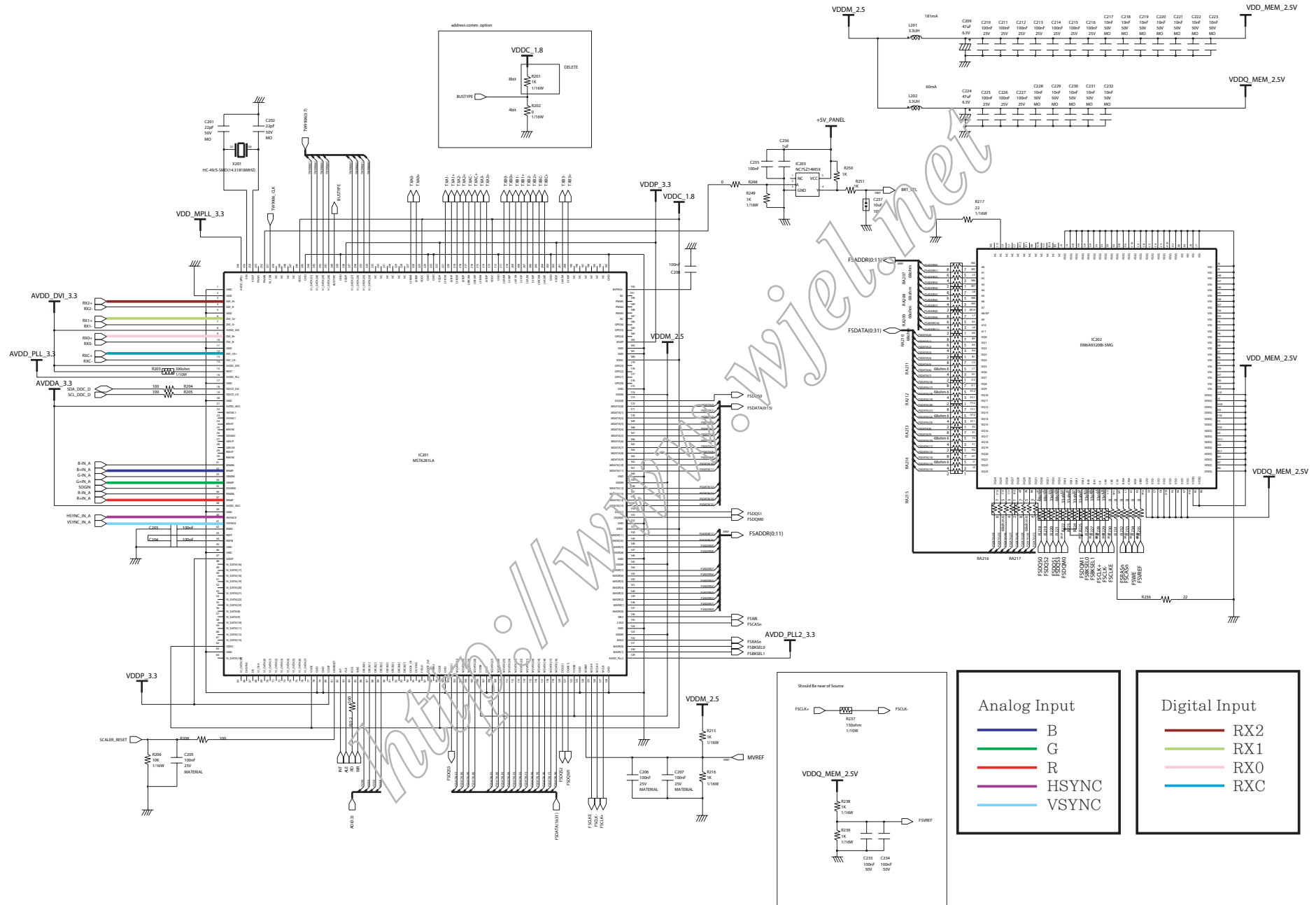
# 9 Schematic Diagrams

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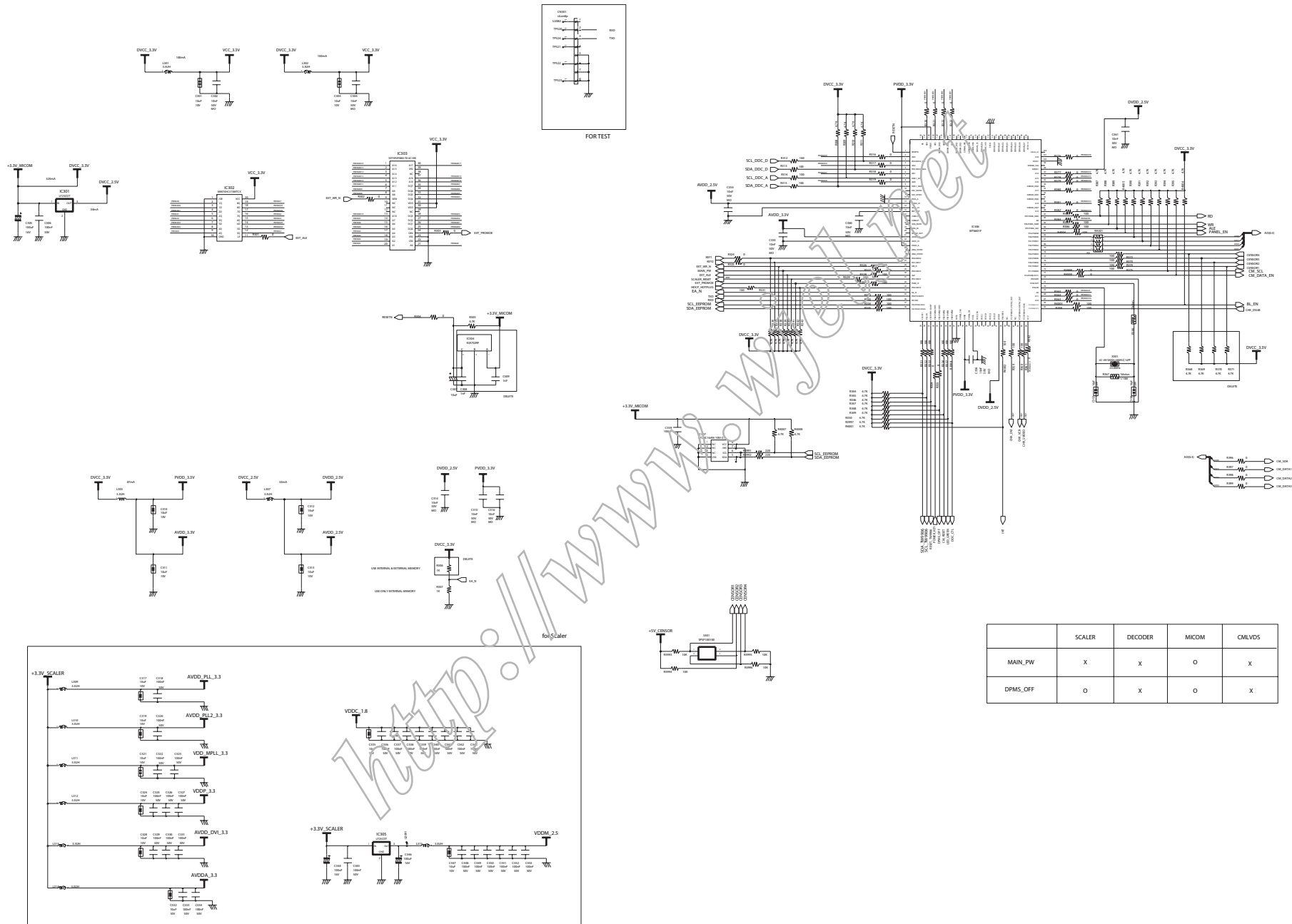
## 9-1 Schematic Diagrams



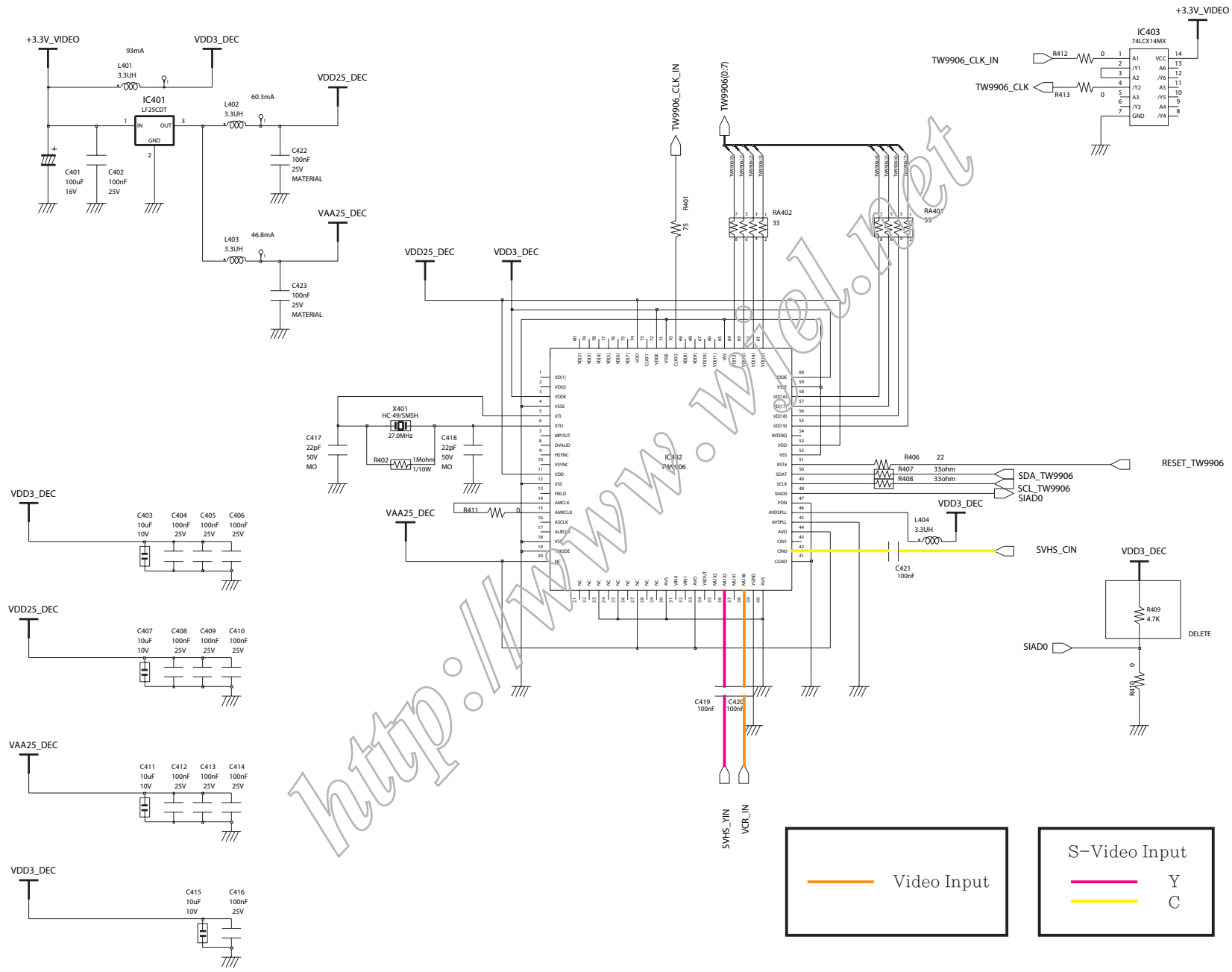
9-2 Schematic Diagrams



9-3 Schematic Diagrams



9-4 Schematic Diagrams



9-5 Schematic Diagrams

