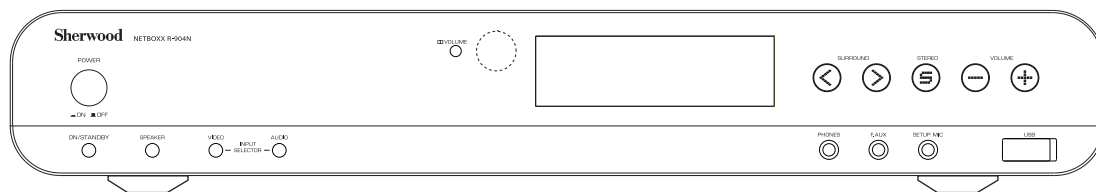


SERVICE MANUAL

R-904/R-904N

DIGITAL A/V RECEIVER / NetBoxxx



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Sherwood

SAFETY PRECAUTIONS

WARNING

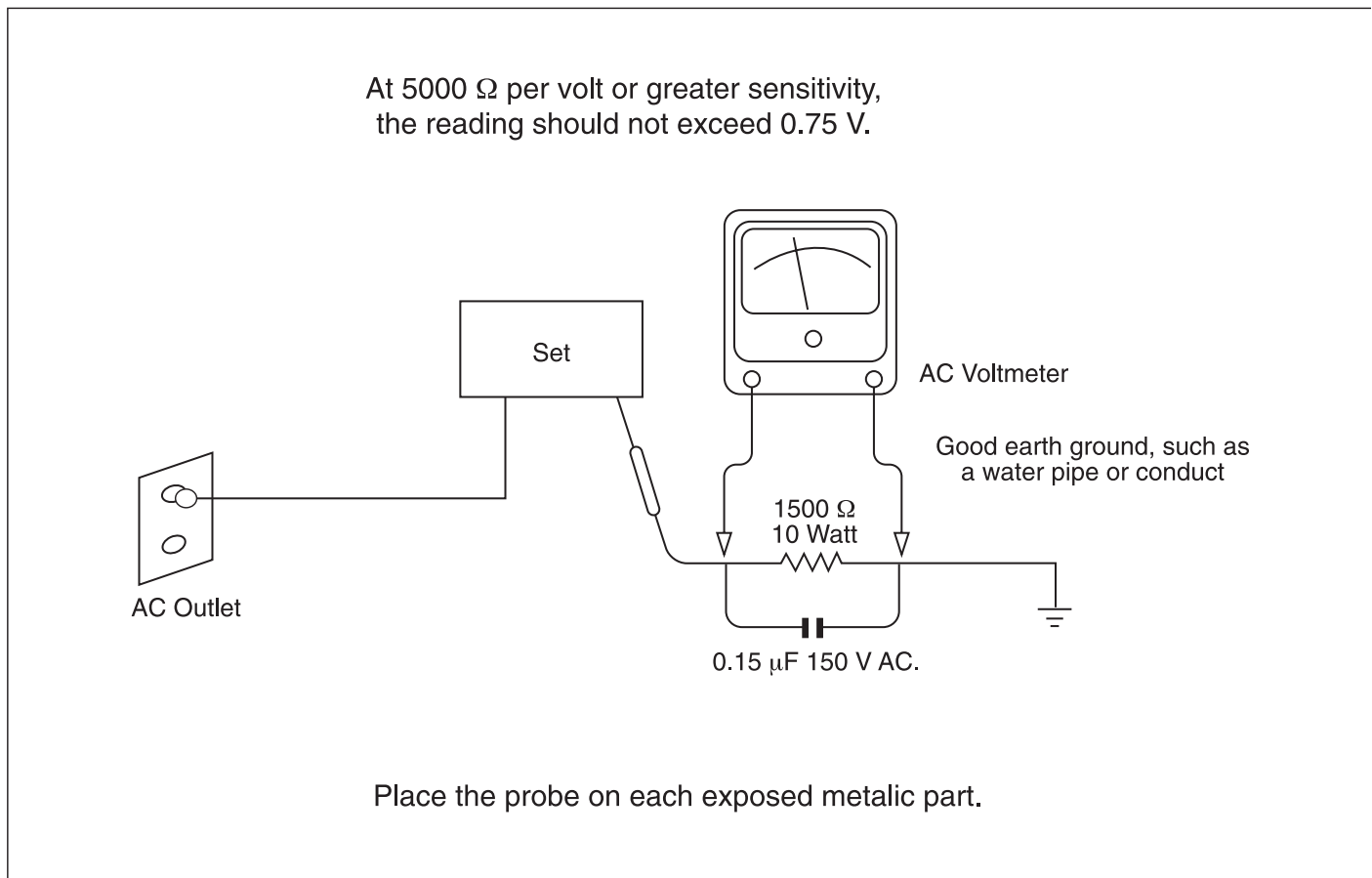
Before servicing this unit, familiarize yourself with the following precautions:

1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by  in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the exposed metal

parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet(USA Version) or 230 V AC outlet(EU Version). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of $5000\ \Omega$ per volt or greater. Then connect a $1500\ \Omega$ 10 watt resistor, paralleled by a $0.15\ \mu\text{F}$ 150 V AC capacitor, between a known good earth ground(such as a water pipe, or conduit) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of a $1500\ \Omega$ resistor and a $0.15\ \mu\text{F}$ capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



SPECIFICATIONS

Measuring methods are based on IHF and IEC standard 268-3

Measurements conditions, unless otherwise noted :

Output resistive load = (6) ohms/Both channel driven.

Tone Direct ON/Other SW's : OFF

Power figures should be kept minimum 10 min. between 15 and 35°C.

Filter : JIS-A R/O = Rated Output

POWER SUPPLY : 120V/60Hz (A) / 230V/50Hz (G)

1. FRONT AMP SECTION

- STEREO MODE : INPUT (CD) • At Front L/R Speaker
- Front/Center/Surr/Surr Back : Large, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 24.5 Vrms Output	CD L+R	1 kHz		mVrms	200±30	200±50
2	RESIDUAL NOISE VOL : 01 dB with AES17 (or 20 kHz SPCL) + JIS-A	CD SHORT			mV	≤2	≤3
3	TOTAL HARMONIC DISTORTION -3 dB at 24.5 Vrms Output with AES17 Filter	CD L+R	20 Hz		%	≤0.5	≤0.8
			1 kHz		%	≤0.5	≤0.8
4	CONTINUOUS AVERAGE POWER at 1 % THD with AES17 Filter	CD L+R	1 kHz	(6) ohms	W	≥100	≥95
5	S/N RATIO, INPUT SHORT JIS-A FILTER at VOL : MAX with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT	1 kHz		dB	≥80	≥75
6	FREQUENCY RESPONSE	CD L+R	20 kHz ~ 48 kHz	1Wrms 1 kHz Ref.	dB	-0.5	0±3
					dB	+1.5	0±3
7	INPUT IMPEDANCE (Kohms) INPUT Mode : Direct	CD			K ohms		47±10

- MULTI-CH MODE : INPUT (CD) • At Front L/R Speaker
- Front/Center/Surr/Surr Back : Small, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 24.5 Vrms Output	CD L+R	1 kHz		mVrms	200±30	200±50
2	RESIDUAL NOISE VOL : 01 dB with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT			mV	≤2	≤3
3	TOTAL HARMONIC DISTORTION -3 dB at 24.5 Vrms Output with AES17 Filter	CD L+R	1 kHz		%	≤0.5	≤0.8
4	CONTINUOUS AVERAGE POWER at 1 % THD with AES17 Filter	CD L+R	1 kHz	(6) ohms	W	≥100	≥95
5	S/N RATIO, INPUT SHORT JIS-A FILTER at VOL : MAX with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT	1 kHz		dB	≥70	≥65

2. CENTER AMP SECTION

- MULTI-CH MODE : INPUT (CD) • At Center Speaker
- Front/Center/Surr/Surr Back : Small, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 24.5 Vrms Output	CD L+R	1 kHz		mVrms	200±30	200±50
2	RESIDUAL NOISE VOL : 01 dB with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT			mV	≤2	≤3
3	TOTAL HARMONIC DISTORTION -3 dB at 24.5 Vrms Output with AES17 Filter	CD L+R	1 kHz		%	≤0.5	≤0.8
4	CONTINUOUS AVERAGE POWER at 1 % THD with AES17 Filter	CD L+R	1 kHz	(6) ohms	W	≥100	≥95
5	S/N RATIO, INPUT SHORT JIS-A FILTER at VOL : MAX with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT	1 kHz		dB	≥70	≥65

3. SURROUND AMP SECTION

- MULTI-CH MODE : INPUT (CD) • At Surround L/R Speaker
- Front/Center/Surr/Surr Back : Small, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 24.5 Vrms Output	CD L+R	1 kHz		mVrms	200±30	200±50
2	RESIDUAL NOISE VOL : 01 dB with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT			mV	≤2	≤3
3	TOTAL HARMONIC DISTORTION -3 dB at 24.5 Vrms Output with AES17 Filter	CD L+R	1 kHz		%	≤0.5	≤0.8
4	CONTINUOUS AVERAGE POWER at 1 % THD with AES17 Filter	CD L+R	1 kHz	(6) ohms	W	≥100	≥95
5	S/N RATIO, INPUT SHORT JIS-A FILTER at VOL : MAX with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT	1 kHz		dB	≥70	≥65

4. SURROUND BACK AMP SECTION

- MULTI-CH MODE : INPUT (CD) • At Surround Back L/R Speaker
- Front/Center/Surr/Surr Back : Small, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 24.5 Vrms Output	CD L+R	1 kHz		mVrms	200±30	200±50
2	RESIDUAL NOISE VOL : 01 dB with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT			mV	≤2	≤3
3	TOTAL HARMONIC DISTORTION -3 dB at 24.5 Vrms Output with AES17 Filter	CD L+R	1 kHz		%	≤0.5	≤0.8
4	CONTINUOUS AVERAGE POWER at 1 % THD with AES17 Filter	CD L+R	1 kHz	(6) ohms	W	≥100	≥95
5	S/N RATIO, INPUT SHORT JIS-A FILTER at VOL : MAX with AES17 (or 20 kHz SPCL) + JIS-A	CD L+R SHORT	1 kHz		dB	≥65	≥60

5. PREOUT (SW) SECTION

- MULTI-CH MODE : INPUT (CD) • At SW PREOUT
- Front/Center/Surr/Surr Back : Small, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 2.7 Vrms Output (VOL : MAX)	CD L+R	70 Hz	SW		200±30	200±50

6. HEADPHONE

- STEREO MODE : INPUT (CD) • At HEADPHONE OUT (Impedance 32 ohms)
- Front/Center/Surr/Surr Back : Large, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	OUTPUT LEVEL 1.25 Vrms Output (VOL : MAX)	CD L+R	1 kHz		mVrms	200±30	200±50

7. DOLBY DIGITAL INPUT SECTION

- Input : OPTICAL or COAX 1
- Auto Surround Mode : DOLBY DIGITAL
- SW : PREOUT
- FR/FL/C/SR/SL : Speaker out
- Disc : DVD Ver 1.5 (or Ver 1.0) Level Disc
- Front/Center/Surr/Surr Back : Small, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	SPEC	
						NOMINAL	LIMIT
1	OUTPUT LEVEL DISC 0 dB Master VOL : 60 dB with LPF (20 kHz or 20 kHz SPCL)	FRONT	1 kHz		Vrms	26±1	26±2
		CENTER	1 kHz		Vrms	26±1	26±2
		SURR	1 kHz		Vrms	26±1	26±2
		LFE	30 Hz	PREOUT	Vrms	2±0.3	2±0.5
2	THD Disc : 0 dB Master VOL : 59 dB with LPF (20 kHz or 20 kHz SPCL)	FRONT	1 kHz		%	≤1	≤1.3
		CENTER	1 kHz		%	≤1	≤1.3
		SURR	1 kHz		%	≤1	≤1.3
		LFE	30 Hz	PREOUT	%	≤0.5	≤1
3	S/N Disc 0 dB Master VOL : 60 dB with LPF (20 kHz)+A (or 20 kHz SPCL)	FRONT	1 kHz		dB	≥75	≥70
		CENTER	1 kHz		dB	≥75	≥70
		SURR	1 kHz		dB	≥75	≥70
		LFE	30 Hz	PREOUT	dB	≥65	≥60

8. DTS INPUT SECTION

- Input : OPTICAL
- Auto Surround Mode : DTS
- SW : PREOUT
- FR/FL/C/SR/SL : Speaker out
- DTS CD : DTS TEST Disc Ver 2.00
- Front/Center/Surr/Surr Back : Small, SW : Yes

No	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	SPEC	
						NOMINAL	LIMIT
1	OUTPUT LEVEL DISC 0 dB Master VOL : 60 dB with LPF (20 kHz or 20 kHz SPCL)	FRONT	1 kHz		Vrms	26±1	26±2
		CENTER	1 kHz		Vrms	26±1	26±2
		SURR	1 kHz		Vrms	26±1	26±2
		LFE	30 Hz	PREOUT	Vrms	2±0.5	2±1
2	THD Disc : 0 dB Master VOL : 59 dB with LPF (20 kHz or 20 kHz SPCL)	FRONT	1 kHz		%	≤1	≤1.3
		CENTER	1 kHz		%	≤1	≤1.3
		SURR	1 kHz		%	≤1	≤1.3
		LFE	30 Hz	PREOUT	%	≤0.8	≤1.2
3	S/N Disc 0 dB Master VOL : 60 dB with LPF (20 kHz)+A (or 20 kHz SPCL)	FRONT	1 kHz		dB	≥75	≥70
		CENTER	1 kHz		dB	≥75	≥70
		SURR	1 kHz		dB	≥75	≥70
		LFE	30 Hz	PREOUT	dB	≥65	≥60

9. VIDEO SECTION

- Load : Video Output 75 ohm
- Disc : TDV-540 Test Disc (ABEX)
- Input Function : Video 1
- Test Instrument : Scope, VN30A1
- Measurement Position : At Monitor Out

1) Input : C-VIDEO -> Output : C-VIDEO

No	DESCRIPTION		INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL		WHITE 100% TITLE CHAP.6	C-VIDEO	Vp_p	1±0.4	1±0.2
2	S/N RATIO		WHITE 50% TITLE2 CHAP.4		dB	≥40	≥45
	Brightness S/N (VN30A1)	HPF 100 kHz					
		LPF 4.2 MHz					
		SC Trap ON					
	Color S/N	HPF 10 kHz	MAGENTA TITLE2 CHAP.17	AM	dB	≥40	≥45
	ALC : OFF	LPF 500 kHz		PM	dB	≥40	≥45
	RANGE : AUTO						
	BOTH						

2) Input : COMPONENT -> Output : COMPONENT

No	DESCRIPTION		INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL		WHITE 100%	Y	Vp_p	1±0.4	1±0.2
			Color Bar Playback TITLE2 CHAP.1	R-Y	Vp_p	0.5±0.2	0.5±0.1
				B-Y	Vp_p	0.5±0.2	0.5±0.1

10. FM SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition FM : Ref. frequency = (98.1 kHz), Audio frequency = 1 kHz

Reference level = 60 dBu on (75 ohms, 300 ohms) Devision :

Filter = B.P.F at STEREO and MONO

Test Point : TP 1= 90.1 MHz, TP 2 = 98.1 MHz, TP 3 = 106.1 MHz

STEREO MODE : Front/Center/Surr/Surr Back : Large, SW : Yes / Speaker Out : 6 ohms / 2CH-STEREO

Frequency Range & Step : 87.5 MHz - 107.9 MHz, 100k Step (A)

87.5 MHz - 108 MHz, 50k Step (A)

No	DESCRIPTION			UNIT	SPEC			
					A		G	
					NOMI. L/R	LIMIT L/R	NOMI. L/R	LIMIT L/R
1	USABLE SENSITIVITY S/N = 30 dB 74 kHz (A)	TP 1		dBu	≤9	≤12	≤9	≤12
		TP 2		dBu	≤9	≤12	≤9	≤12
		TP 3		dBu	≤9	≤12	≤9	≤12
2	AUTO STOP LEVEL (75 kHz)	TP 2		dBu	23±4	23±8	23±4	23±8
3	S/N RATIO (IHF-A) VOL : 60 dB STEREO EXT 19 kHz FILTER (75 kHz, 60 dBu)	TP 2	MONO	dB	≥60	≥55	≥60	≥55
			STEREO	dB	≥60	≥55	≥60	≥55
4	T.H.D STEREO EXT 19 kHz FILTER (75 kHz, 60 dBu)	TP 2	MONO	%	≤0.8	≤1.2	≤0.8	≤1.2
			STEREO	%	≤1.0	≤1.5	≤1.0	≤1.5
5	OVER LOAD THD (120 dBu, 75 kHz)	TP 2	MONO	%	≤2.0	≤3.0	≤2.0	≤3.0
6	STEREO SEPARATION (MAIN:90%, PILOT 10%) EXT 19 kHz FILTER	TP 2	250 Hz	dB	≥30	≥25	≥30	≥25
			1 kHz	dB	≥30	≥25	≥30	≥25
			6.3 kHz	dB	≥25	≥20	≥25	≥20
7	FREQUENCY RESPONSE (75us, -3 dB)	TP 2		Hz	50~12 k	60~9 k	50~12 k	60~9 k
8	IF REJECTION (75 kHz)	TP 1		dB	≥65	≥60	≥65	≥60
9	IMAGE REJECTION (75 kHz)	TP 3		dB	≥20	≥18	≥20	≥18
10	AM SPRESSION (at AM 30 % 1 kHz)	TP 2		dB	≥40	≥35	≥40	≥35
11	RDS SENSITIVITY	TP 2		dB			≤35	≤38

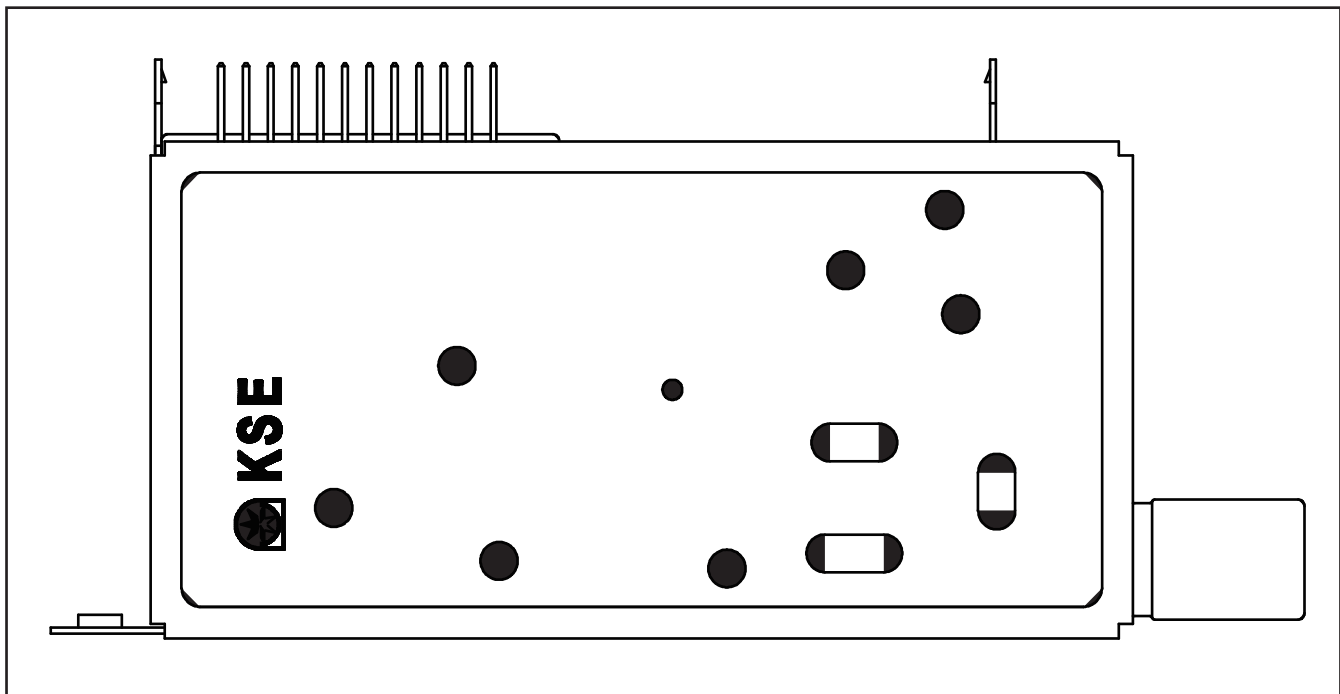
ALIGNMENT PROCEDURES

1. Electrical specification.

NO.	ITEMS	SPECIFICATION
		F M
1-1	Local OSC	Above the receiving Frequency
1-2	Frequency cover range	87.5 ~ 108.0MHz
1-3	Standard supply voltage	12.0(±0.5V)
1-4	FM Antenna input Impedance	75 ohm

2. Electrical Characteristics.

NO	TEST ITEMS	TEST CONDITION	T.P.	T.L.	MOD.	Specification	UNIT
				dBu	kHz, %		
FM	AF Output Level	47Ω Load	98.1	60	40	280±100	mV
	Auto Stop Level		98.1	--		25 ±6	dBu
	Stereo Separation	1kHz	98.1	60		25 min	dB

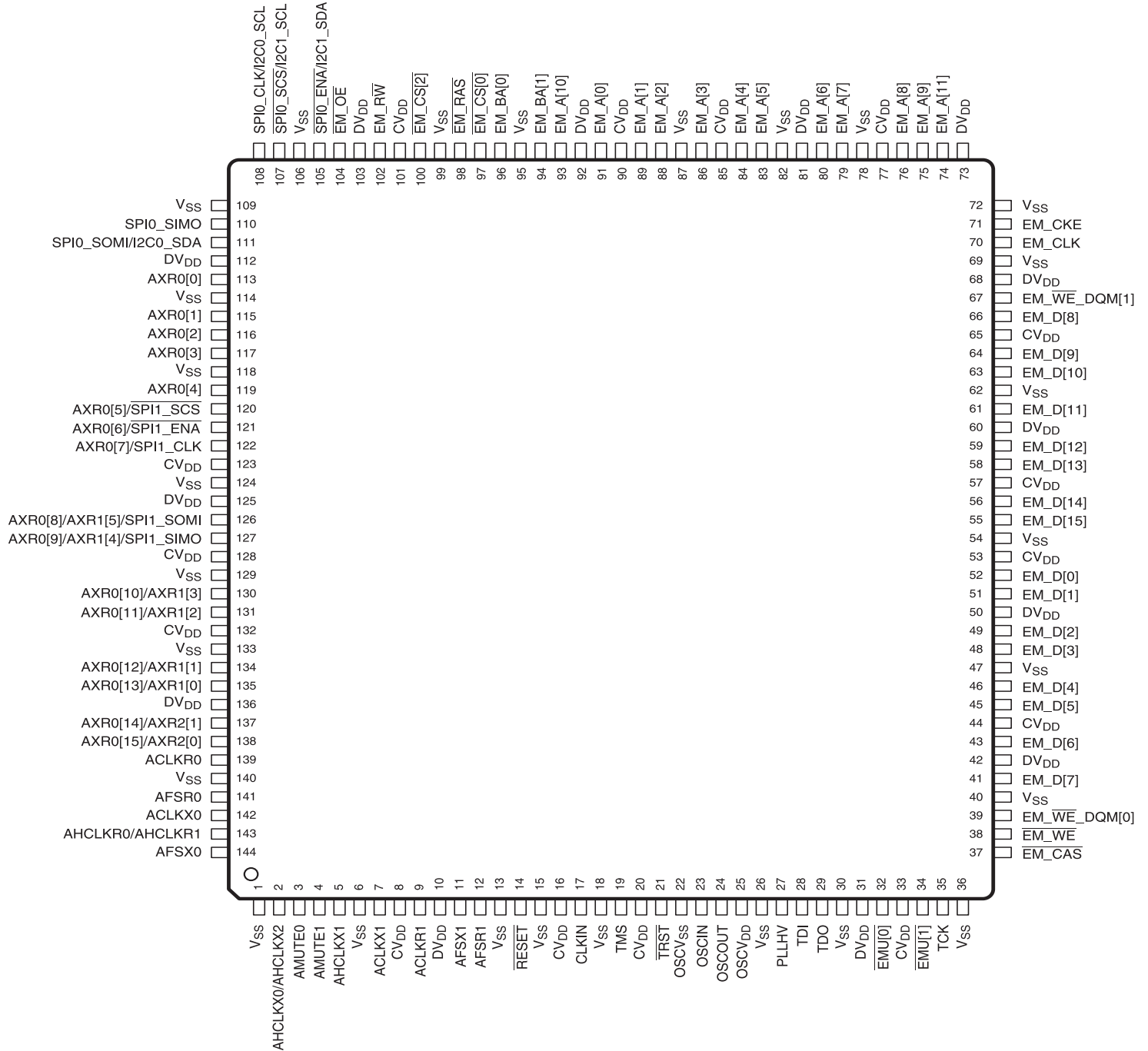


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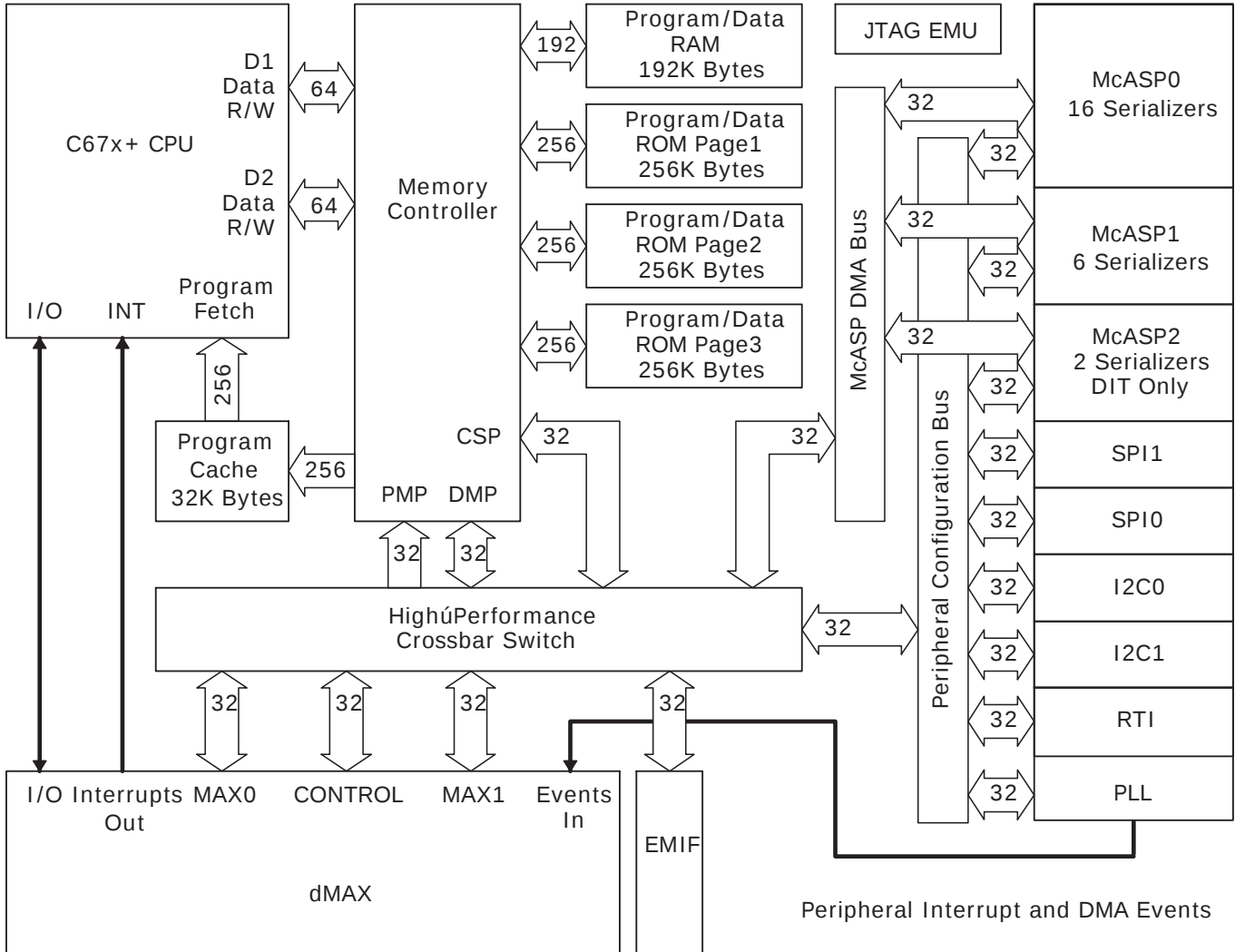
CIRCUIT DESCRIPTION

TMS320DA787 : IC1010

1. Pin Function



2. Block Diagram



3. Pin Description

Table, the Terminal Functions table, identifies the external signal names, the associated pin/ball numbers along with the mechanical package designator, the pin type (I, O, IO, OZ, or PWR), whether the pin/ball has any internal pullup/pulldown resistors, whether the pin/ball is configurable as an IO in GPIO mode, and a functional pin description.

Table. Terminal Functions

SIGNAL NAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
External Memory Interface (EMIF) Address and Control					
EM_A[0]	91	O	-	N	EMIF Address Bus
EM_A[1]	89	O	-	N	
EM_A[2]	88	O	-	N	
EM_A[3]	86	O	-	N	
EM_A[4]	84	O	-	N	
EM_A[5]	83	O	-	N	
EM_A[6]	80	O	-	N	
EM_A[7]	79	O	-	N	
EM_A[8]	76	O	-	N	
EM_A[9]	75	O	-	N	
EM_A[10]	93	O	-	N	
EM_A[11]	74	O	-	N	
EM_BA[0]	96	O	-	N	SDRAM Bank Address and Asynchronous Memory
EM_BA[1]	94	O	-	N	Low-Order Address
EM_CS[0]	97	O	-	N	SDRAM Chip Select
EM_CS[2]	100	O	-	N	Asynchronous Memory Chip Select
EM_CAS	37	O	-	N	SDRAM Column Address Strobe
EM_RAS	98	O	-	N	SDRAM Row Address Strobe
EM_WE	38	O	-	N	SDRAM Write Enable
EM_CKE	71	O	-	N	SDRAM Clock Enable
EM_CLK	70	O	-	N	SDRAM Clock
EM_WE_DQM[0]	39	O	-	N	Write Enable or Byte Enable for EM_D[7:0]
EM_WE_DQM[1]	67	O	-	N	Write Enable or Byte Enable for EM_D[15:8]
EM_OE	104	O	-	N	SDRAM Output Enable
EM_RW	102	O	-	N	Asynchronous Memory Read/not Write
External Memory Interface (EMIF) Data Bus					
EM_D[0]	52	IO	-	N	EMIF Data Bus [Lower 16 Bits]
EM_D[1]	51	IO	-	N	
EM_D[2]	49	IO	-	N	
EM_D[3]	48	IO	-	N	
EM_D[4]	46	IO	-	N	
EM_D[5]	45	IO	-	N	
EM_D[6]	43	IO	-	N	
EM_D[7]	41	IO	-	N	
EM_D[8]	66	IO	-	N	
EM_D[9]	64	IO	-	N	
EM_D[10]	63	IO	-	N	
EM_D[11]	61	IO	-	N	
EM_D[12]	59	IO	-	N	
EM_D[13]	58	IO	-	N	
EM_D[14]	56	IO	-	N	
EM_D[15]	55	IO	-	N	

SIGNALNAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
McASP0, McASP1, McASP2, and SPI1 Serial Ports					
AHCLKR0/AHCLKR1	143	IO	-	Y	McASP0 and McASP1 ReceiveMasterClock
ACLKR0	139	IO	-	Y	McASP0 ReceiveBit Clock
AFSR0	141	IO	-	Y	McASP0 ReceiveFrameSync (L/RClock)
AHCLKX0/AHCLKX2	2	IO	-	Y	McASP0 and McASP2 Transmit MasterClock
ACLKX0	142	IO	-	Y	McASP0 Transmit Bit Clock
AFSX0	144	IO	-	Y	McASP0 TransmitFrame Sync (L/RClock)
AMUTE0	3	O	-	Y	McASP0 MUTE Output
AXR0[0]	113	IO	-	Y	McASP0 SerialData0
AXR0[1]	115	IO	-	Y	McASP0 SerialData1
AXR0[2]	116	IO	-	Y	McASP0 SerialData2
AXR0[3]	117	IO	-	Y	McASP0 SerialData3
AXR0[4]	119	IO	-	Y	McASP0 SerialData4
AXR0[5]/ $\overline{\text{SPI1_SCS}}$	120	IO	-	Y	McASP0 SerialData5 or SPI1 SlaveChip Select
AXR0[6]/ $\overline{\text{SPI1_ENA}}$	121	IO	-	Y	McASP0 SerialData6 or SPI1 Enable (Ready)
AXR0[7]/SPI1_CLK	122	IO	-	Y	McASP0 SerialData7 or SPI1 SerialClock
AXR0[8]/AXR1[5]/ $\overline{\text{SPI1_SOMI}}$	126	IO	-	Y	McASP0 SerialData8 or McASP1 SerialData5 or SPI1 DataPin SlaveOutMasterIn
AXR0[9]/AXR1[4]/ $\overline{\text{SPI1_SIMO}}$	127	IO	-	Y	McASP0 SerialData9 or McASP1 SerialData4 or SPI1 DataPin SlaveInMasterOut
AXR0[10]/AXR1[3]	130	IO	-	Y	McASP0 SerialData10 or McASP1 SerialData3
AXR0[11]/AXR1[2]	131	IO	-	Y	McASP0 SerialData11 or McASP1 SerialData2
AXR0[12]/AXR1[1]	134	IO	-	Y	McASP0 SerialData12 or McASP1 SerialData1
AXR0[13]/AXR1[0]	135	IO	-	Y	McASP0 SerialData13 or McASP1 SerialData0
AXR0[14]/AXR2[1]	137	IO	-	Y	McASP0 SerialData14 or McASP2 SerialData1
AXR0[15]/AXR2[0]	138	IO	-	Y	McASP0 SerialData15 or McASP2 SerialData0
ACLKR1	9	IO	-	Y	McASP1 ReceiveBit Clock
AFSR1	12	IO	-	Y	McASP1 ReceiveFrameSync (L/RClock)
AHCLKX1	5	IO	-	Y	McASP1 Transmit Master Clock
ACLKX1	7	IO	-	Y	McASP1 Transmit Bit Clock
AFSX1	11	IO	-	Y	McASP1 Transmit Frame Sync (L/RClock)
AMUTE1	4	O	-	Y	McASP1 MUTE Output
SPI0, I2C0, and I2C1 Serial Port Pins					
SPI0_SOMI/I2C0_SDA	111	IO	-	Y	SPI0 DataPin SlaveOutMasterIn or I2C0 SerialData
SPI0_SIMO	110	IO	-	Y	SPI0 DataPin SlaveInMasterOut
SPI0_CLK/I2C0_SCL	108	IO	-	Y	SPI0 SerialClock or I2C0 SerialClock
$\overline{\text{SPI0_SCS}}$ /I2C1_SCL	107	IO	-	Y	SPI0 SlaveChip Selector or I2C1 SerialClock
$\overline{\text{SPI0_ENA}}$ /I2C1_SDA	105	IO	-	Y	SPI0 Enable (Ready) or I2C1 SerialData
Clocks					
OSCIN	23	I	-	N	1.2-V Oscillator Input
OSCOU	24	O	-	N	1.2-V Oscillator Output
OSCV _{DD}	25	PWR	-	N	Oscillator 1.2-V V _{DD} tap point (for filter only)
OSCV _{SS}	22	PWR	-	N	Oscillator V _{SS} tap point (for filter only)
CLKIN	17	I	-	N	Alternate clock input (3.3-V LVCMOS Input)
PLLHV	27	PWR	-	N	PLL 3.3-V Supply Input (requires external filter)
Device Reset					
$\overline{\text{RESET}}$	14	I	-	N	Device reset pin

SIGNALNAME	PIN NO.	TYPE ⁽¹⁾	PULL ⁽²⁾	GPIO ⁽³⁾	DESCRIPTION
Emulation / JTAG Port					
TCK	35	I	IPU	N	TestClock
TMS	19	I	IPU	N	TestModeSelect
TDI	28	I	IPU	N	TestDataIn
TDO	29	OZ	IPU	N	TestDataOut
$\overline{\text{TRST}}$	21	I	IPD	N	TestReset
$\overline{\text{EMU}}[0]$	32	IO	IPU	N	EmulationPin 0
$\overline{\text{EMU}}[1]$	34	IO	IPU	N	EmulationPin 1
Power Pins					
Core Supply(CV_{DD})	8, 16, 20, 33, 44, 53, 57, 65, 77, 85, 90, 101, 123, 128, 132				
IO Supply(DV_{DD})	10, 31, 42, 50, 60, 68, 73, 81, 92, 103, 112, 125, 136				
Ground(V_{SS})	1, 6, 13, 15, 18, 26, 30, 36, 40, 47, 54, 62, 69, 72, 78, 82, 87, 95, 99, 106, 109, 114, 118, 124, 129, 133, 140				

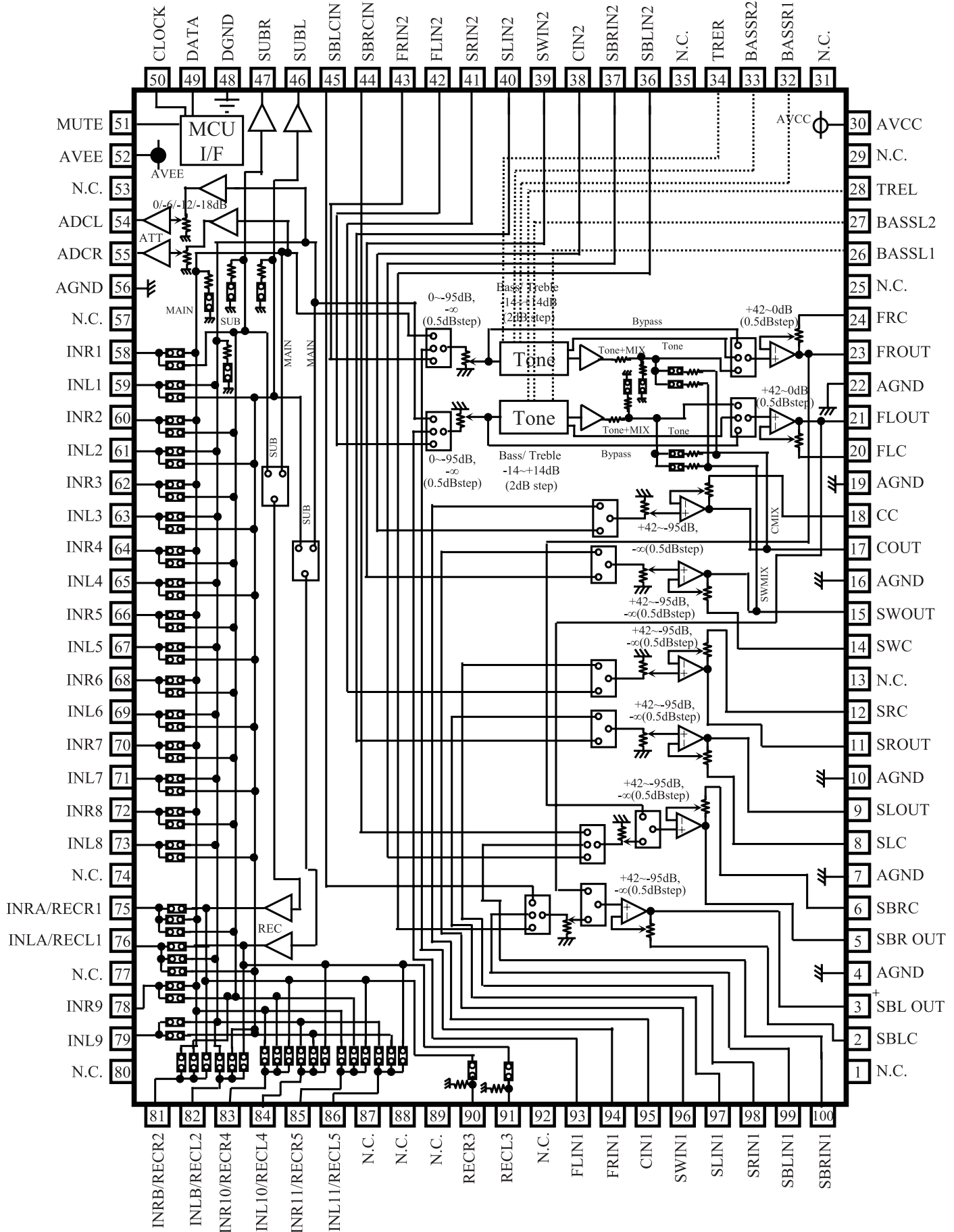
- (1) TYPE column refers to pin direction in functional mode. If a pin has more than one function with different directions, the functions are separated with a slash (/).
- (2) PULL column:
IPD = Internal Pulldown resistor
IPU = Internal Pullup resistor
- (3) If the GPIO column is 'Y', then in GPIO mode, the pin is configurable as an IO unless otherwise marked.

R2A15218FR : IC104

1. Pin Description

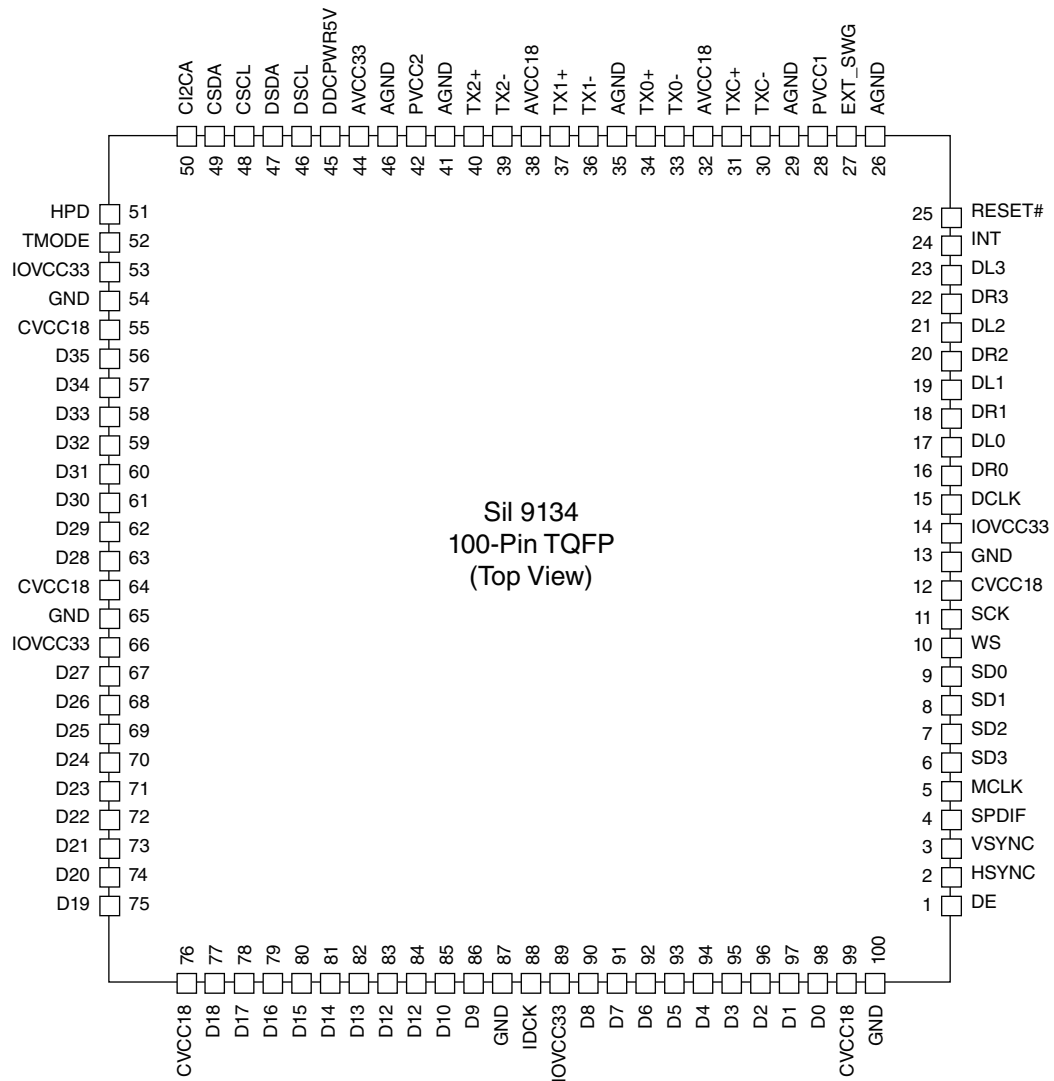
PIN No.	Name	Function
23,21, 17,15, 11,9, 5,3	FROUT,FLOUT, COUT,SWOUT, SROUT, SLOUT, SBROUT,SBLOUT	Output pin of FL/FR/C/SW/SL/SR/SBL/SBR channel
24,20, 18,14, 12,8, 6,2	FRC,FLC, CC,SWC, SRC,SLC, SBRC,SBLC	Connects capacitor for reducing click noise of L/R/C/SW/SL/SR/SBL/SBR channel volume
4,7,10,16, 19,22,56	AGND	Analog ground of internal circuit
28,34	TREL, TRER	Frequency characteristic setting pin of L/R channel tone control (Treble)
26,27, 32,33	BASSL1,BASSL2 BASSR1,BASSR2	Frequency characteristic setting pin of L/R channel tone control (Bass)
30	AVCC	Positive power supply to internal circuit
43,42, 41,40, 39,38, 37,36	FRIN2, FLIN2, SRN2,SLIN2, SWIN2,CIN2, SBRIN2,SBLIN2	Input pin of L/R/C/SW/SL/SR/SBL/SBR channel (Multi IN 1/2)
93,94, 95,96, 97,98, 99,100	FLIN1, FRIN1, CIN1,SWIN1, SLIN1,SRIN1, SBLIN1,SBRIN1	
48	DGND	Digital ground of internal circuit
49	DATA	Input pin of control data
50	CLOCK	Input pin of control clock
52	AVEE	Negative power supply to internal circuit
59,61,63, 65,67,69, 71,73,79	INL1,INL2, INL3, INL4,INL5,INL6, INL7,INL8,INL9	Input pin of L/R channel (Input Selector)
58,60,62, 64,66,68, 70,72,78	INR1,INR2, INR3, INR4,INR5,INR6, INR7,INR8,INR9	
51	MUTE	Outside Mute Control PIN
44,45	SBRCIN,SBLCIN	Input pin for SBL/SBR channel Volume
46,47	SUBL,SUBR	Output pin for L/R channel SUB Output
54,55	ADCL, ADCR	Output pin for L/R channel ADC
90,91	RECR3,RECL3	Output pin for L/R channel REC Output
75,76, 81,82, 83,84, 85,86	INRA/RECR1,INLA/RECL1, INRB/RECR2,INLB/RECL2, INR10/RECR4,INL10/RECL4, INR11/RECR5,INL11/RECL5	Input pin of L/R channel (Input Selector)/ Output pin for L/R channel REC Output
1,13,25,29,31, 35,53, 57,74,77,80, 87,88,89,92	N.C.	No Connected PIN

2. Block Diagram

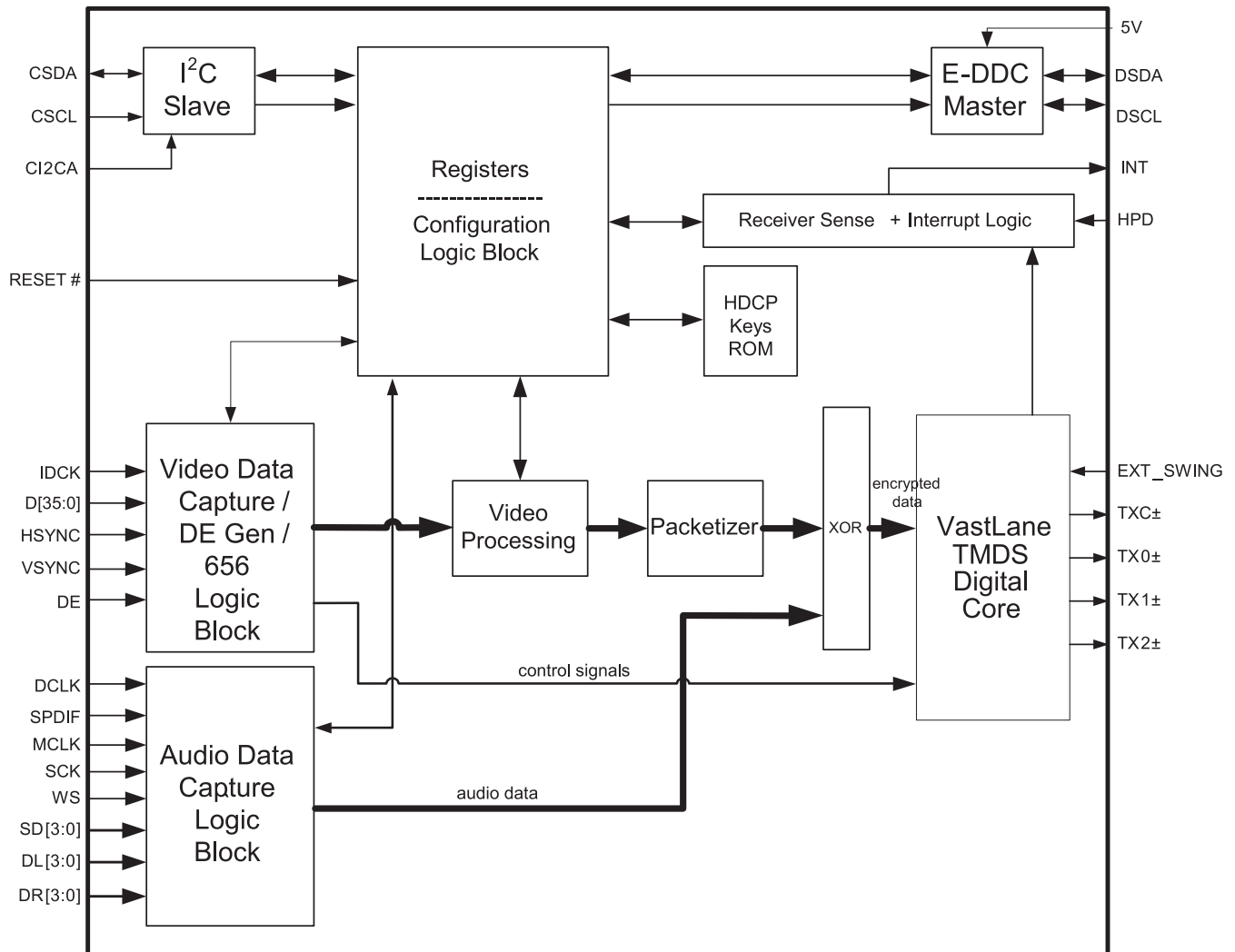


Sil9134 : IC1004

1. Pin Function

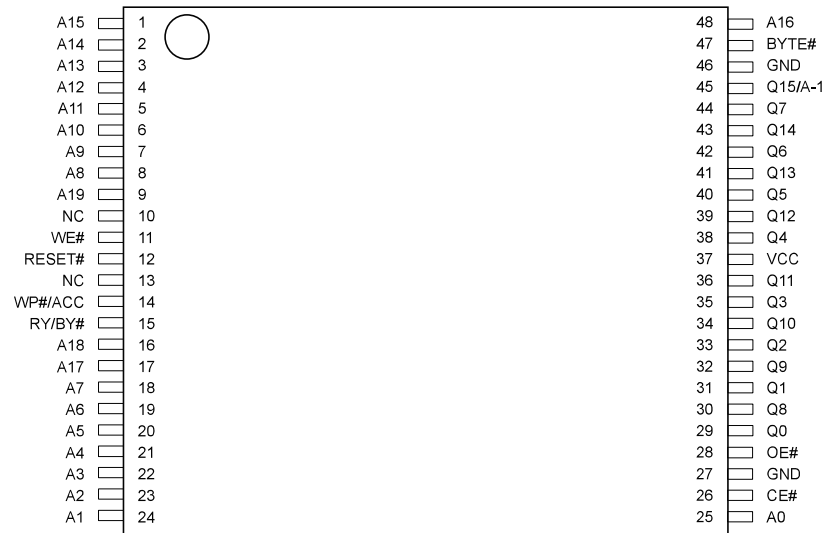


2. Block Diagram

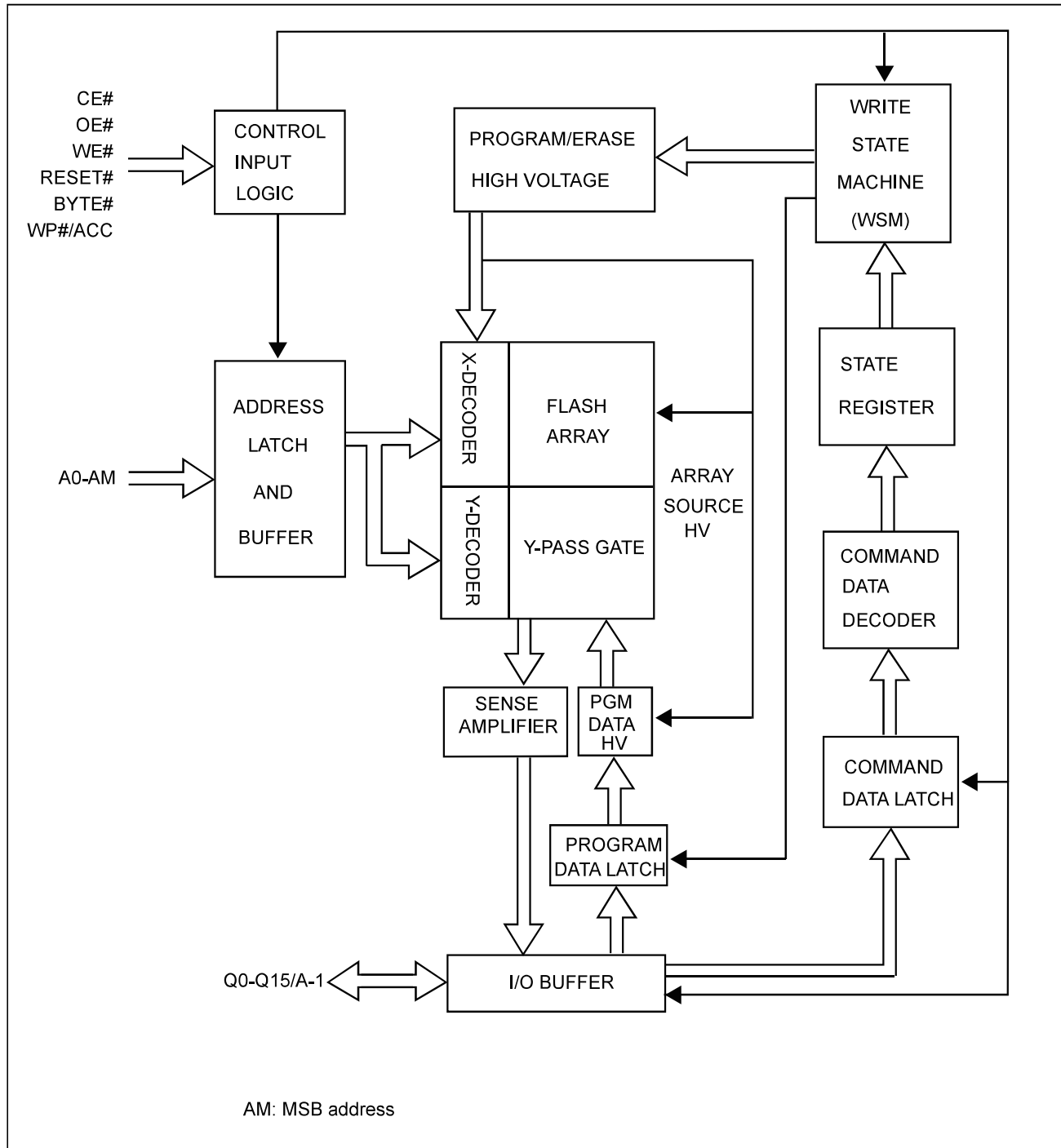


MX29LV160DTTI : IC1009 / 1012

1. Pin Function

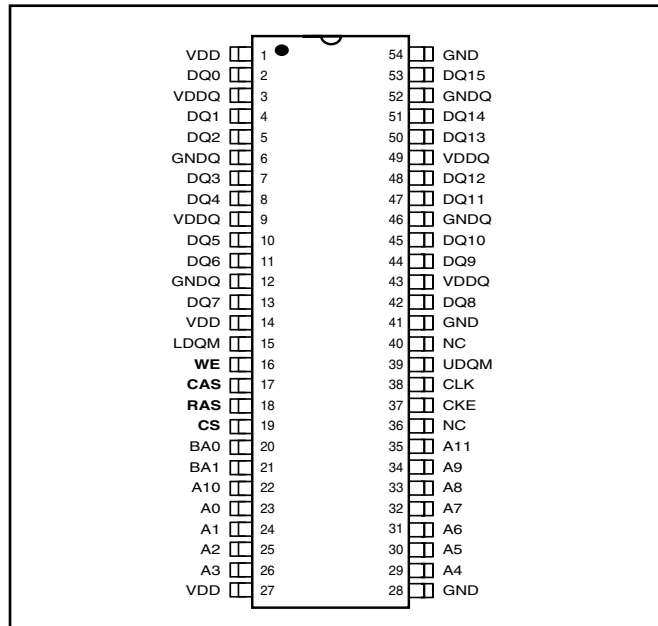


2. Block Diagram

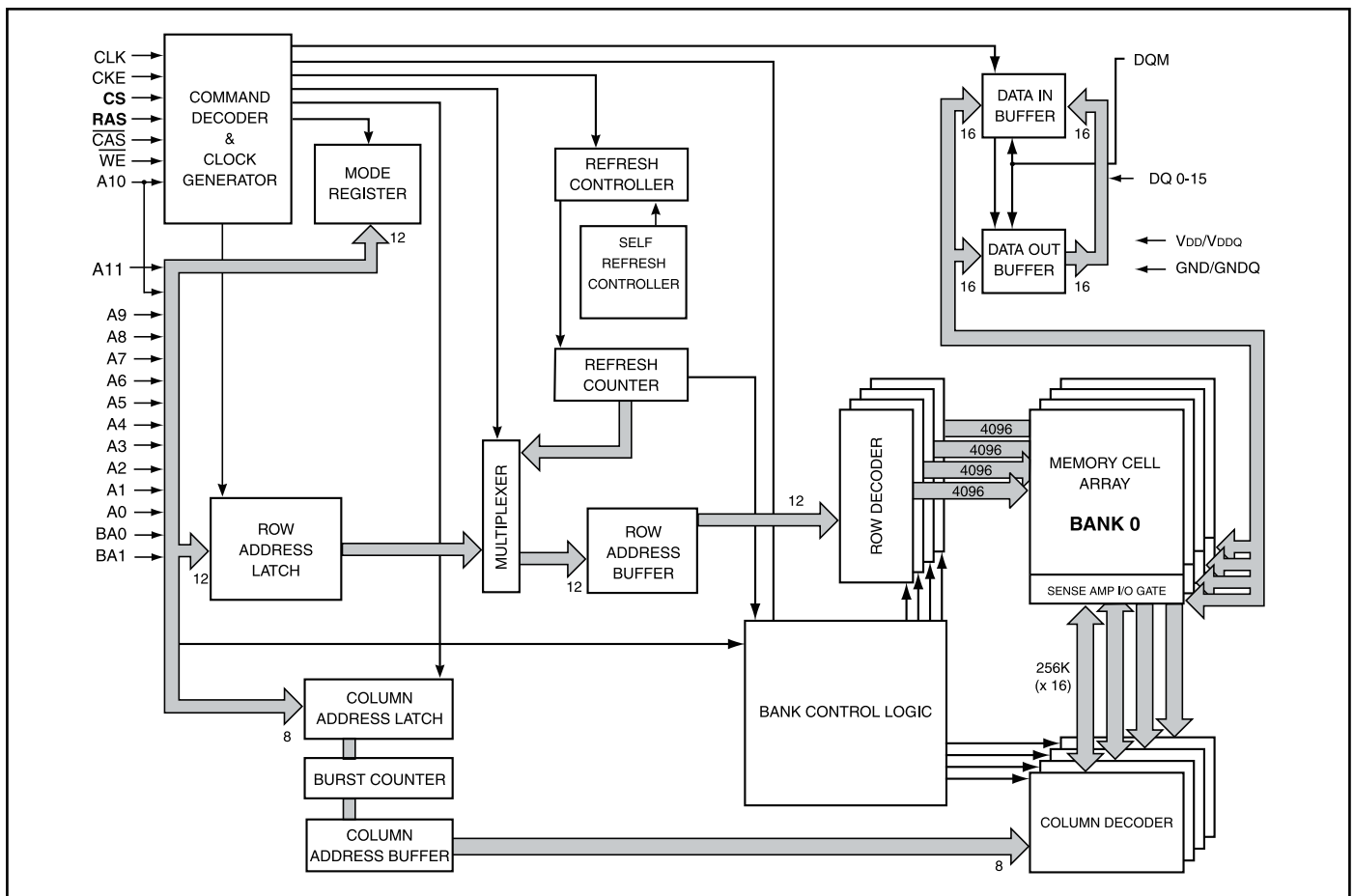


IC42S16400F : IC1008 / 1011

1. Pin Function



2. Block Diagram

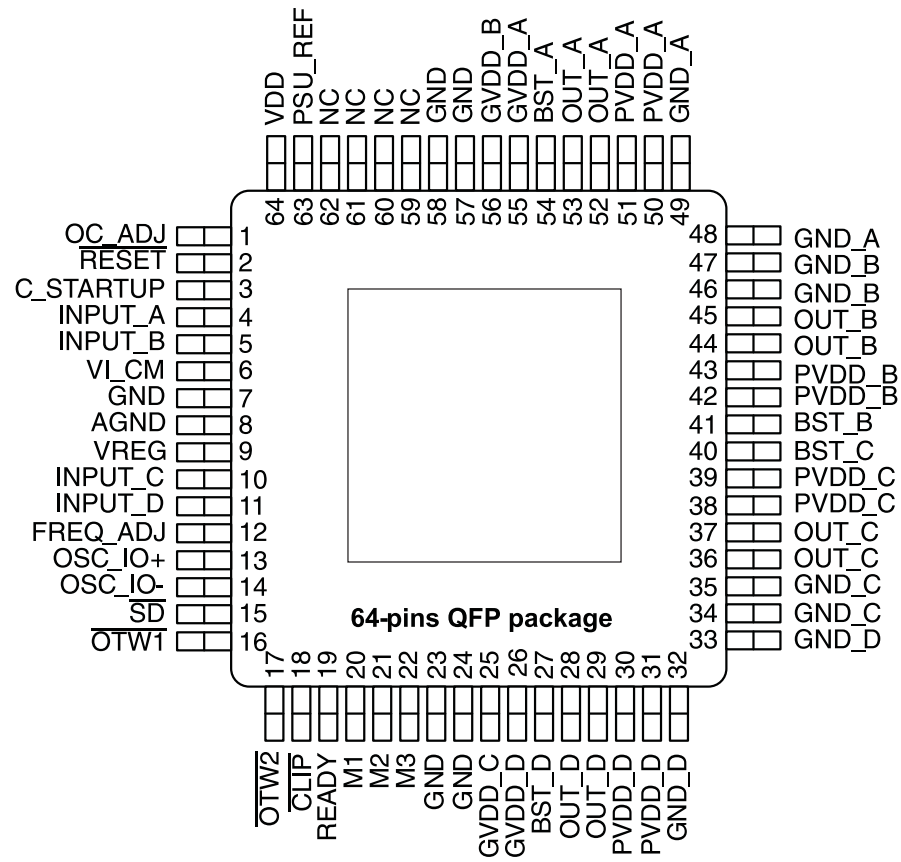


3. Pin Description

Symbol	TSOP Pin No.	Type	Function (In Detail)
A0-A11	23 to 26 29 to 34 22, 35	Input Pin	Address Inputs: A0-A11 are sampled during the ACTIVE command (row-address A0-A11) and READ/WRITE command (A0-A7 with A10 defining auto precharge) to select one location out of the memory array in the respective bank. A10 is sampled during a PRECHARGE command to determine if all banks are to be precharged (A10 HIGH) or bank selected by BA0, BA1 (LOW). The address inputs also provide the op-code during a LOAD MODE REGISTER command.
BA0, BA1	20, 21	Input Pin	Bank Select Address: BA0 and BA1 defines which bank the ACTIVE, READ, WRITE or PRECHARGE command is being applied.
CAS	17	Input Pin	CAS , in conjunction with the RAS and WE , forms the device command. See the "Command Truth Table" for details on device commands.
CKE	37	Input Pin	The CKE input determines whether the CLK input is enabled. The next rising edge of the CLK signal will be valid when is CKE HIGH and invalid when LOW. When CKE is LOW, the device will be in either power-down mode, clock suspend mode, or self refresh mode. CKE is an asynchronous input.
CLK	38	Input Pin	CLK is the master clock input for this device. Except for CKE, all inputs to this device are acquired in synchronization with the rising edge of this pin.
CS	19	Input Pin	The CS input determines whether command input is enabled within the device. Command input is enabled when CS is LOW, and disabled with CS is HIGH. The device remains in the previous state when CS is HIGH.
DQ0 to DQ15	2, 4, 5, 7, 8, 10, 11,13, 42, 44, 45, 47, 48, 50, 51, 53	DQ Pin	DQ0 to DQ15 are I/O pins. I/O through these pins can be controlled in byte units using the LDQM and UDQM pins.
LDQM, UDQM	15, 39	Input Pin	LDQM and UDQM control the lower and upper bytes of the I/O buffers. In read mode, LDQM and UDQM control the output buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and when HIGH, disabled. The outputs go to the HIGH impedance state when LDQM/UDQM is HIGH. This function corresponds to OE in conventional DRAMs. In write mode, LDQM and UDQM control the input buffer. When LDQM or UDQM is LOW, the corresponding buffer byte is enabled, and data can be written to the device. When LDQM or UDQM is HIGH, input data is masked and cannot be written to the device.
RAS	18	Input Pin	RAS , in conjunction with CAS and WE , forms the device command. See the "Command Truth Table" item for details on device commands.
WE	16	Input Pin	WE , in conjunction with RAS and CAS , forms the device command. See the "Command Truth Table" item for details on device commands.
V _{DDQ}	3, 9, 43, 49	Power Supply Pin	V _{DDQ} is the output buffer power supply.
V _{DD}	1, 14, 27	Power Supply Pin	V _{DD} is the device internal power supply.
GND _Q	6, 12, 46, 52	Power Supply Pin	GND _Q is the output buffer ground.
GND	28, 41, 54	Power Supply Pin	GND is the device internal ground.

TAS5630 : IC114 /115/119/120

1. Pin Function

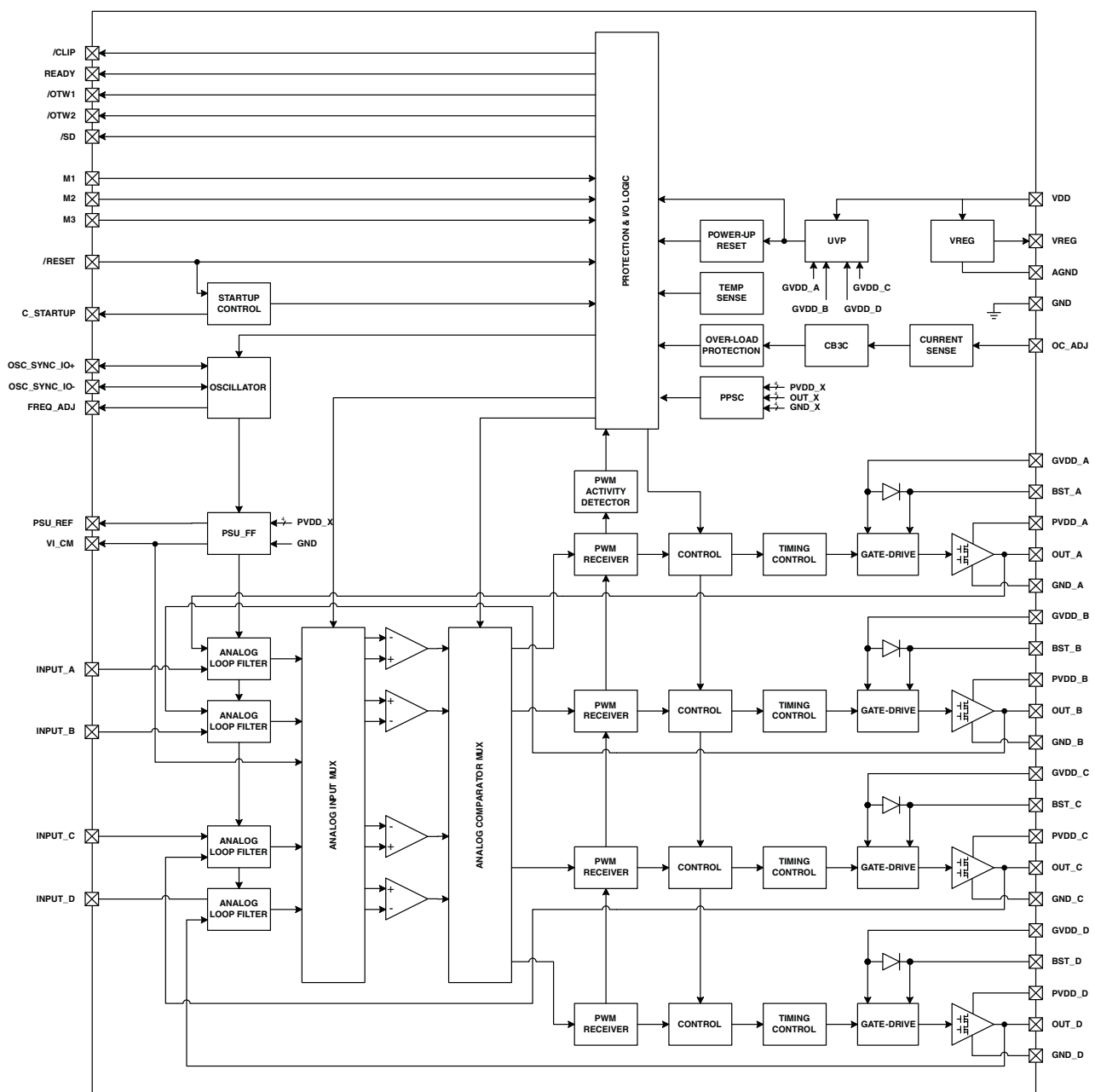


2. Pin Description

PIN			Function ⁽¹⁾	DESCRIPTION
NAME	PHD NO.	DKD NO.		
AGND	8	10	P	Analog ground
BST_A	54	43	P	HS bootstrap supply (BST), external 0.033 μ F capacitor to OUT_A required.
BST_B	41	34	P	HS bootstrap supply (BST), external 0.033 μ F capacitor to OUT_B required.
BST_C	40	33	P	HS bootstrap supply (BST), external 0.033 μ F capacitor to OUT_C required.
BST_D	27	24	P	HS bootstrap supply (BST), external 0.033 μ F capacitor to OUT_D required.
CLIP	18	—	O	Clipping warning; open drain; active low
C_STARTUP	3	5	O	Startup ramp requires a charging capacitor of 4.7 nF to AGND in BTL mode
FREQ_ADJ	12	14	I	PWM frame rate programming pin requires resistor to AGND
GND	7, 23, 24, 57, 58	9	P	Ground
GND_A	48, 49	38	P	Power ground for half-bridge A
GND_B	46, 47	37	P	Power ground for half-bridge B
GND_C	34, 35	30	P	Power ground for half-bridge C
GND_D	32, 33	29	P	Power ground for half-bridge D
GVDD_A	55	—	P	Gate drive voltage supply requires 0.1 μ F capacitor to GND_A
GVDD_B	56	—	P	Gate drive voltage supply requires 0.1 μ F capacitor to GND_B
GVDD_C	25	—	P	Gate drive voltage supply requires 0.1 μ F capacitor to GND_C
GVDD_D	26	—	P	Gate drive voltage supply requires 0.1 μ F capacitor to GND_D
GVDD_AB	—	44	P	Gate drive voltage supply requires 0.22 μ F capacitor to GND_A/GND_B
GVDD_CD	—	23	P	Gate drive voltage supply requires 0.22 μ F capacitor to GND_C/GND_D
INPUT_A	4	6	I	Input signal for half bridge A
INPUT_B	5	7	I	Input signal for half bridge B
INPUT_C	10	12	I	Input signal for half bridge C
INPUT_D	11	13	I	Input signal for half bridge D
M1	20	20	I	Mode selection
M2	21	21	I	Mode selection
M3	22	22	I	Mode selection
NC	59–62	—	—	No connect, pins may be grounded.
OC_ADJ	1	3	O	Analog overcurrent programming pin requires resistor to AGND. 64 pin package (PHD) = 22kOhm. 44 pin PSOP3 (DKD) = 24kOhm
OSC_IO+	13	15	I/O	Oscillator master/slave output/input.
OSC_IO–	14	16	I/O	Oscillator master/slave output/input.
OTW	—	18	O	Overtemperature warning signal, open drain, active low.
OTW1	16	—	O	Overtemperature warning signal, open drain, active low.
OTW2	17	—	O	Overtemperature warning signal, open drain, active low.
OUT_A	52, 53	39, 40	O	Output, half bridge A
OUT_B	44, 45	36	O	Output, half bridge B
OUT_C	36, 37	31	O	Output, half bridge C
OUT_D	28, 29	27, 28	O	Output, half bridge D
PSU_REF	63	1	P	PSU Reference requires close decoupling of 330 pF to AGND
PVDD_A	50, 51	41, 42	P	Power supply input for half bridges A requires close decoupling of 0.01 μ F capacitor in parallel with 2.2 μ F capacitor to GND_A
PVDD_B	42, 43	35	P	Power supply input for half bridges B requires close decoupling of 0.01 μ F capacitor in parallel with 2.2 μ F capacitor to GND_B
PVDD_C	38, 39	32	P	Power supply input for half bridges C requires close decoupling of 0.01 μ F capacitor in parallel with 2.2 μ F capacitor to GND_C

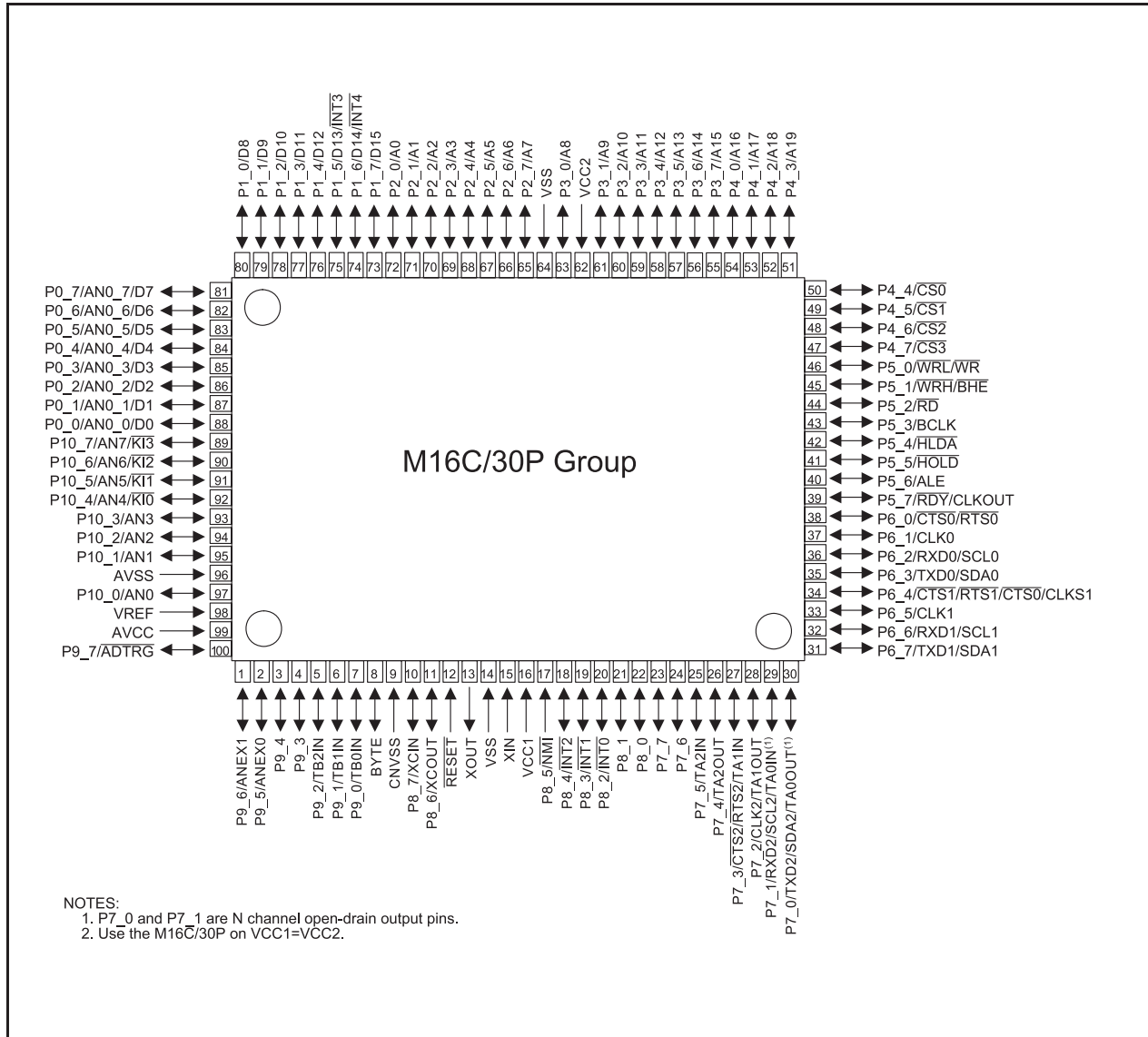
PIN			Function ⁽¹⁾	DESCRIPTION
NAME	PHD NO.	DKD NO.		
PVDD_D	30, 31	25, 26	P	Power supply input for half bridges A requires close decoupling of 0.01 μ F capacitor in parallel with 2.2 μ F capacitor to GND_A
READY	19	19	O	Normal operation; open drain; active high
RESET	2	4	I	Device reset Input; active low
SD	15	17	O	Shutdown signal, open drain, active low
VDD	64	2	P	Power supply for digital voltage regulator requires a 10- μ F capacitor in parallel with a 0.1- μ F capacitor to GND for decoupling.
VI_CM	6	8	O	Analog comparator reference node requires close decoupling of 1nF to AGND
VREG	9	11	P	Digital regulator supply filter pin requires 0.1- μ F capacitor to AGND

3. Block Diagram

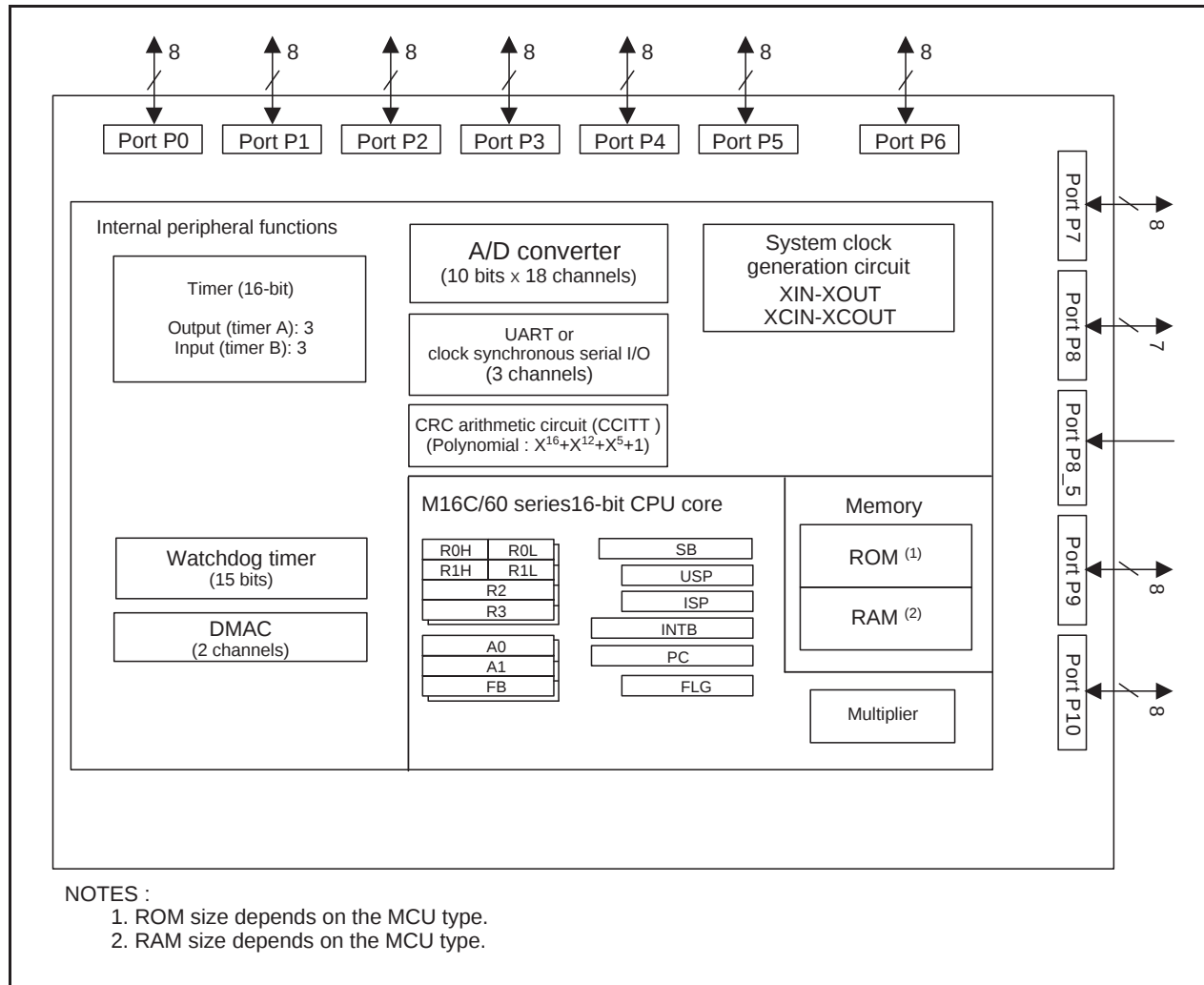


M3030RFEPFP : IC107 / IC1005

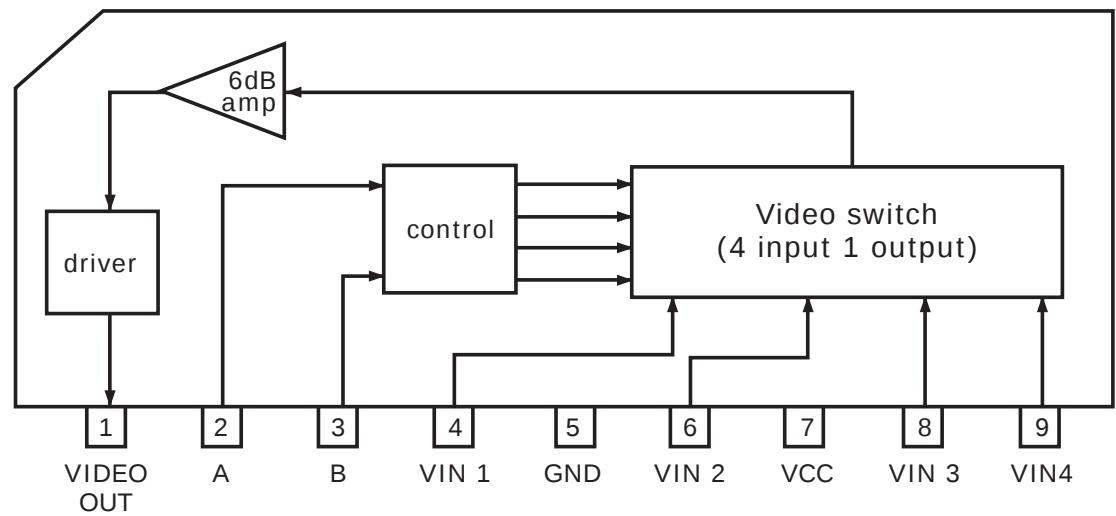
1. Pin Function



2. Block Diagram

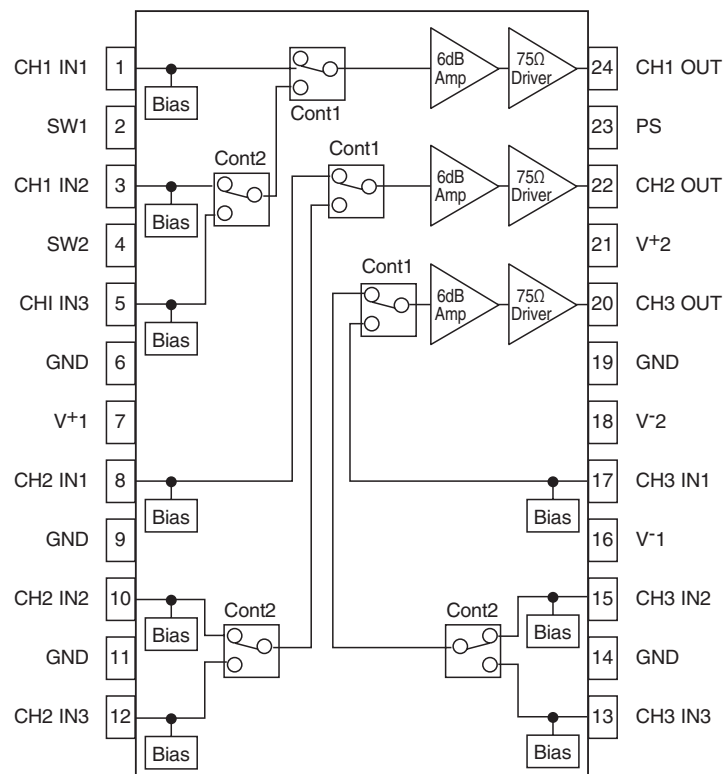


LA7956 : IC100



NJM2586 : IC102

1. Block Diagram

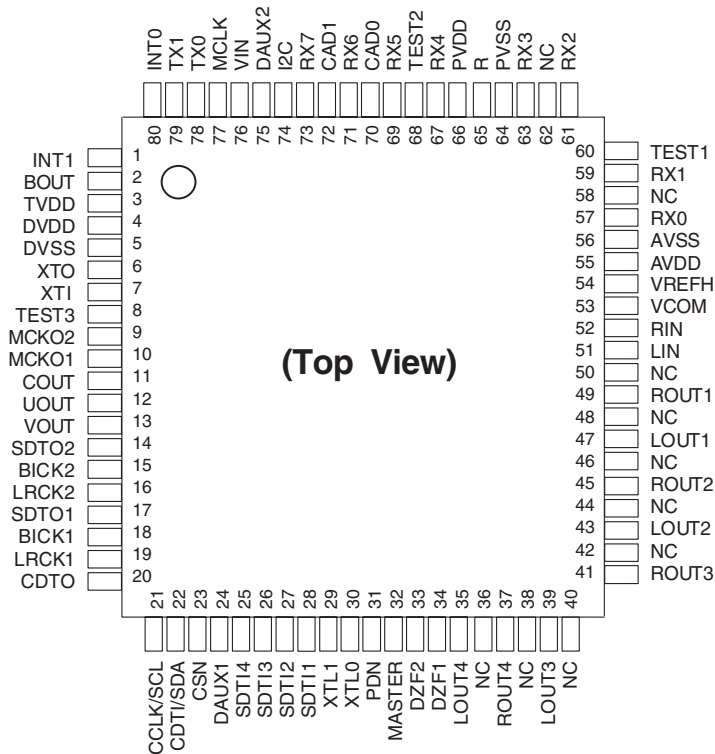


2. Pin Description

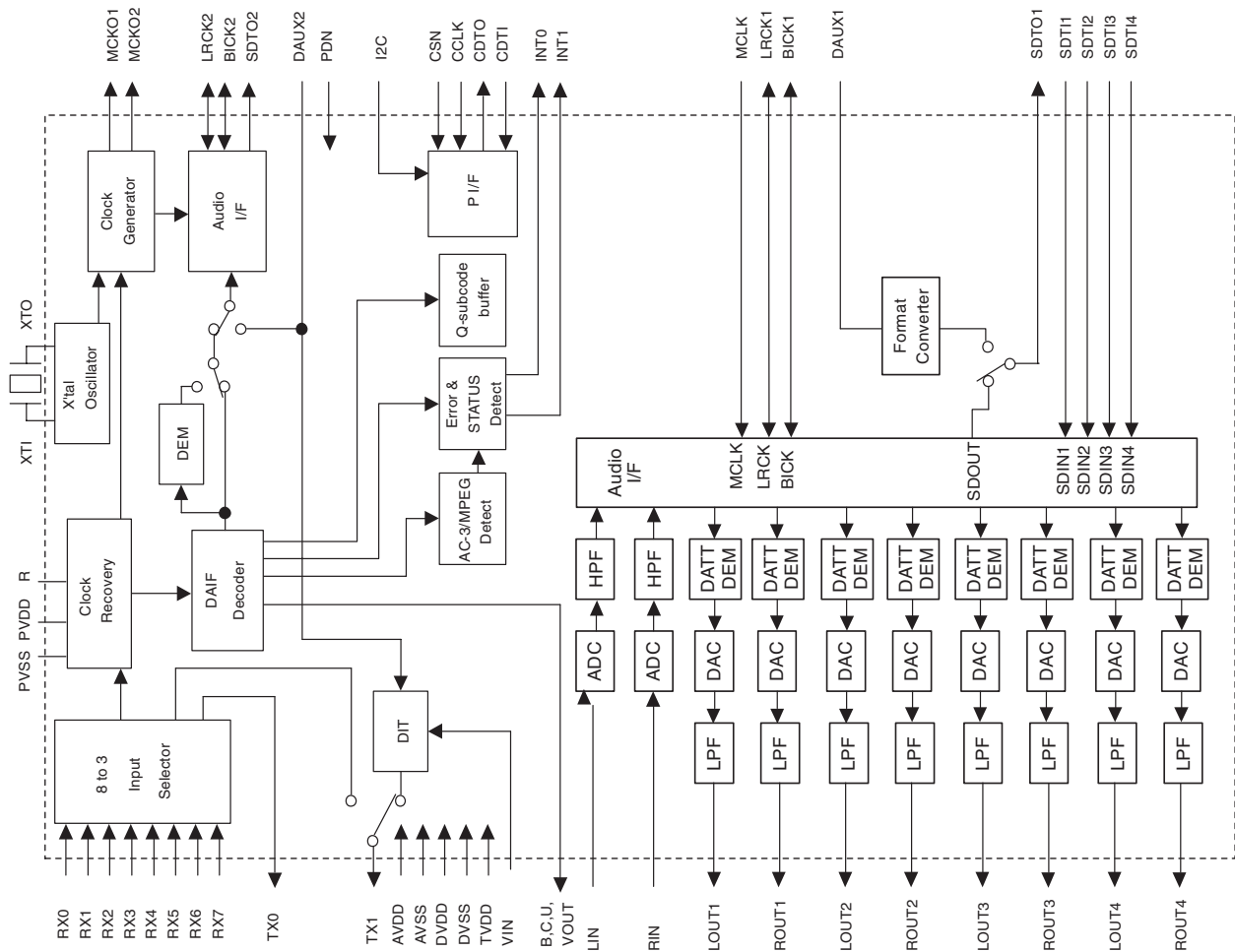
No.	SYMBOL	VOLTAGE
1	CH1 IN1	0V
3	CH1 IN2	
5	CH1 IN3	
8	CH2 IN1	
10	CH2 IN2	
12	CH2 IN3	
13	CH3 IN1	
15	CH3 IN2	0V
17	CH3 IN3	
20	CH1 OUT	
22	CH2 OUT	0V
24	CH3 OUT	
2	SW1	0V
4	SW2	
23	Power Save	0V

AK4588 : IC1000

1. Pin Function



2. Block Diagram



3. Pin Description

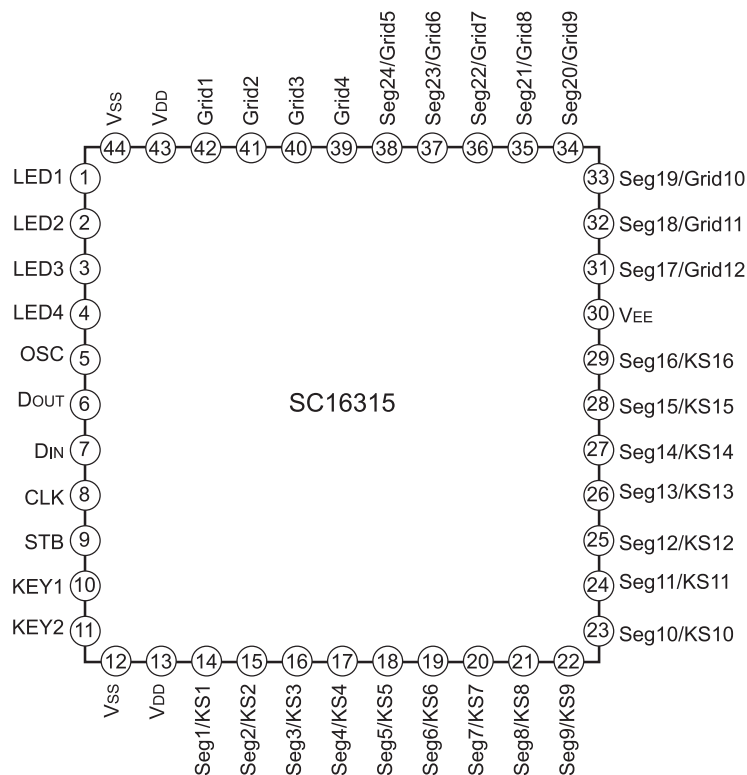
No.	Pin Name	I/O	Function
1	INT1	O	Interrupt 1 Pin
2	BO UT	O	Block-Start Output Pin for Receiver Input iH during first 40 frames.
3	TVDD	-	Output Buffer Power Supply Pin, 2.7V ~5.5V
4	DV DD	-	Digital Power Supply Pin, 4.5V ~5.5V
5	DV SS	-	D igital Ground Pin
6	XT O	O	X'tal clock Output Pin
7	XT I	I	X 'tal / External clock Input Pin
8	TE ST3	I	Test 3 Pin This pin should be connected to DV SS.
9	MCKO2	O	Master Clock Output 2 Pin
10	MCKO1	O	Master Clock Output 1 Pin
11	CO UT	O	C-bit Output Pin for Receiver Input
12	UOUT	O	U-bit Output Pin for Receiver Input
13	VO UT	O	V-bit Output Pin for Receiver Input
14	SDTO 2	O	A udio Serial Data Output Pin (D IR/DIT part)
15	BICK 2	I/O	A udio Serial Data Clock Pin (D IR/DIT part)
16	LR CK 2	I/O	C hannel Clock Pin (D IR/DIT part)
17	SDTO 1	O	A udio Serial Data Output Pin (A DC /DAC part)
18	BICK 1	I/O	A udio Serial Data Clock Pin (A DC /DAC part)
19	LR CK 1	I/O	I nput Channel Clock Pin
20	CD TO	O	C ontrol Data Output Pin in Serial Mo de, I2C pin= "L".
21	CC LK	I	Control Data Clock Pin in Serial Mo de, I2C pin= "L".
	SCL	I	C ontrol Data Clock Pin in Serial Mo de, I2C pin= "H".
22	CD TI	I	C ontrol Data Input Pin in Serial Mo de, I2C pin= "L".
	SDA	I/O	C ontrol Data Pin in Serial Mo de, I2C pin= "H".
23	CSN	I	C hip Select Pin in Serial Mo de, I2C pin= "L".
		I	T his pin should be connected to DV SS, I2C pin= "H".
24	DA UX1	I	A UX Audio Serial Data Input Pin (ADC /DAC part)
25	SDTI4	I	DA C4 Audio Serial Data Input Pin
26	SDTI3	I	DA C3 Audio Serial Data Input Pin
27	SDTI2	I	DA C2 Audio Serial Data Input Pin
28	SDTI1	I	DA C1 Audio Serial Data Input Pin
29	XT L1	I	Xí tal Frequency Select 0 Pin
30	XT L0	I	Xí tal Frequency Select 1 Pin
31	PDN	I	Power-Down Mo de Pin When "L", the AK 4588 is powered-down, all output pin goes "L", all registers are reset. When CAD1 -0 pins are changed, the AK 4588 should be reset by PD N pin.
32	MA STER	I	Master Mo de Select Pin "H ": Ma ster mode, "L ": Slav e mode
33	DZF2	O	Zero Input Detect 2 Pin (Table 13) When the input data of the group 1 follow total 8192 LR CK cycles with "0" input data, this pin goes to "H". When RSTN 1 bit is "0" or PW DA N bit is "0", this pin goes to "H".
	OV F	O	Analog Input Overflow Detect Pin This pin goes to "H" if the analog input of Lc h or Rc h overflows. This pin becomes OV F pin if OV FE bit is set to 1.
34	DZF1	O	Zero Input Detect 1 Pin (Table 13) When the input data of the group 1 follow total 8192 LR CK cycles with "0" input data, this pin goes to "H". When RSTN 1 bit is "0" or PW DAN bit is "0", this pin goes to "H".
35	LO UT 4	O	D AC 4 Lc h Analog Output Pin
36	NC	-	No Connect pin No internal bonding . This pin should be opened.
37	RO UT 4	O	DA C4 Rc h Analog Output Pin
38	NC	-	No Connect pin No internal bonding . This pin should be opened.
39	LO UT 3	O	DA C3 Lc h Analog Output Pin

No.	Pin Name	I/O	Function
40	NC	-	No Connect pin No internal bonding. This pin should be opened.
41	ROUT3	O	DA C3 Rch Analog Output Pin
42	NC	-	No Connect pin No internal bonding. This pin should be opened.
43	LOUT2	OD	AC 2 Lch Analog Output Pin
44	NC	-	No Connect pin No internal bonding. This pin should be opened.
45	ROUT2	O	DA C2 Rch Analog Output Pin
46	NC	-	No Connect pin No internal bonding. This pin should be opened.
47	LOUT1	OD	AC 1 Lch Analog Output Pin
48	NC	-	No Connect pin No internal bonding. This pin should be opened.
49	ROUT1	O	DA C1 Rch Analog Output Pin
50	NC	-	No Connect pin No internal bonding. This pin should be opened.
51	LIN	IL	ch Analog Input Pin
52	RIN	I	Rch Analog Input Pin
53	VCOM	-	Common Voltage Output Pin 2.2F capacitor should be connected to AVSS externally.
54	VR EF H-		Positive Voltage Reference Input Pin, AVDD
55A	VDD	-	Analog Power Supply Pin, 4.5V~ 5.5V
56	AVSS	-	Analog Ground Pin, 0V
57	RX0	I	Receiver Channel 0 Pin (Internal biased pin. Internally biased at PVDD/ 2)
58	NC	-	No Connect pin No internal bonding. This pin should be connected to PVSS.
59	RX1	I	Receiver Channel 1 Pin (Internal biased pin. Internally biased at PVDD/ 2)
60	TEST1I		Test 1 Pin This pin should be connected to PVSS.
61	RX2	I	Receiver Channel 2 Pin (Internal biased pin. Internally biased at PVDD/ 2)
62	NC	-	No Connect pin No internal bonding. This pin should be connected to PVSS.
63	RX3	I	Receiver Channel 3 Pin (Internal biased pin. Internally biased at PVDD/ 2)
64	PVSS	-P	LL Ground pin
65	R	-	External Resistor Pin 12k $\pm 1\%$ resistor should be connected to PVSS externally.
66P	VDD	-	PLL Power supply Pin, 4.5V~ 5.5V
67	RX4	I	Receiver Channel 4 Pin (Internal biased pin. Internally biased at PVDD/ 2)
68	TEST2I		Test 2 Pin This pin should be connected to PVSS.
69	RX5	I	Receiver Channel 5 Pin (Internal biased pin. Internally biased at PVDD/ 2)
70C	AD0	I	Chip Address 0 Pin (ADC/ DAC part)
71	RX6	I	Receiver Channel 6 Pin (Internal biased pin. Internally biased at PVDD/ 2)
72C	AD1	I	Chip Address 1 Pin (ADC/ DAC part)
73	RX7I	R	Receiver Channel 7 Pin (Internal biased pin. Internally biased at PVDD/ 2)
74	I2CI		Control Mode Select Pin. "L": 4-wire Serial, "H": I ² C Bus
75D	AUX2	I	Auxiliary Audio Data Input Pin (DIR/DIT part)
76	VINI		V-bit Input Pin for Transmitter Output
77	MC LK	I	Master Clock Input Pin
78	TX0	OT	Transmit Channel (Through Data) Output 0 Pin
79	TX1	O	Transmit Channel Output1 pin When TX bit = "0", Transmit Channel (Through Data) Output 1 Pin. When TX bit = "1", Transmit Channel (DAUX2 Data) Output Pin (Default).
80	INT0	OI	Interrupt 0 Pin

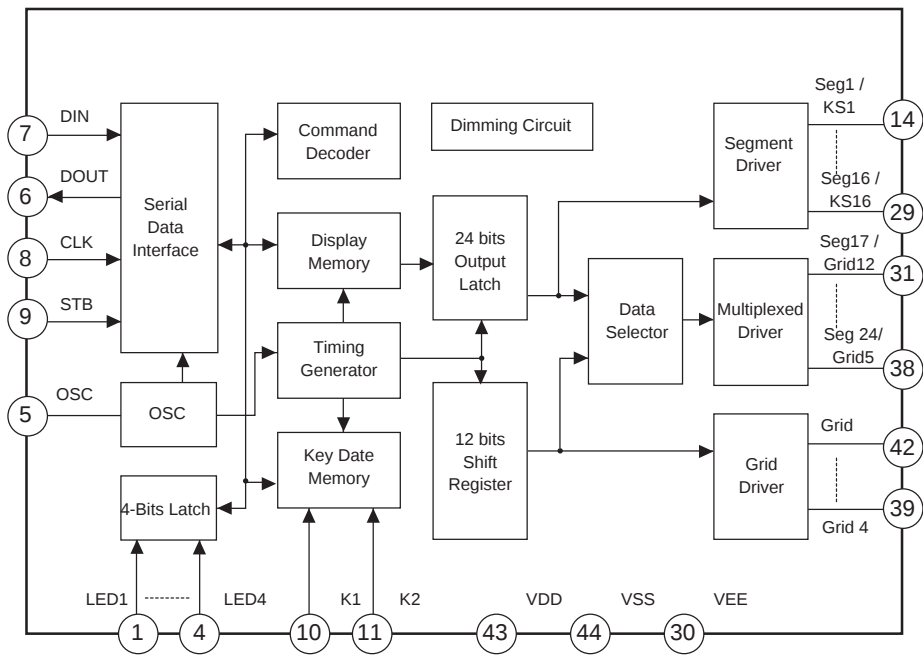
Note : All input pins except internal biased pins and internal pull-down pin should not be left floating.

SC16315 : IC800

1. Pin Function



2. Block Diagram



TROUBLESHOOTING

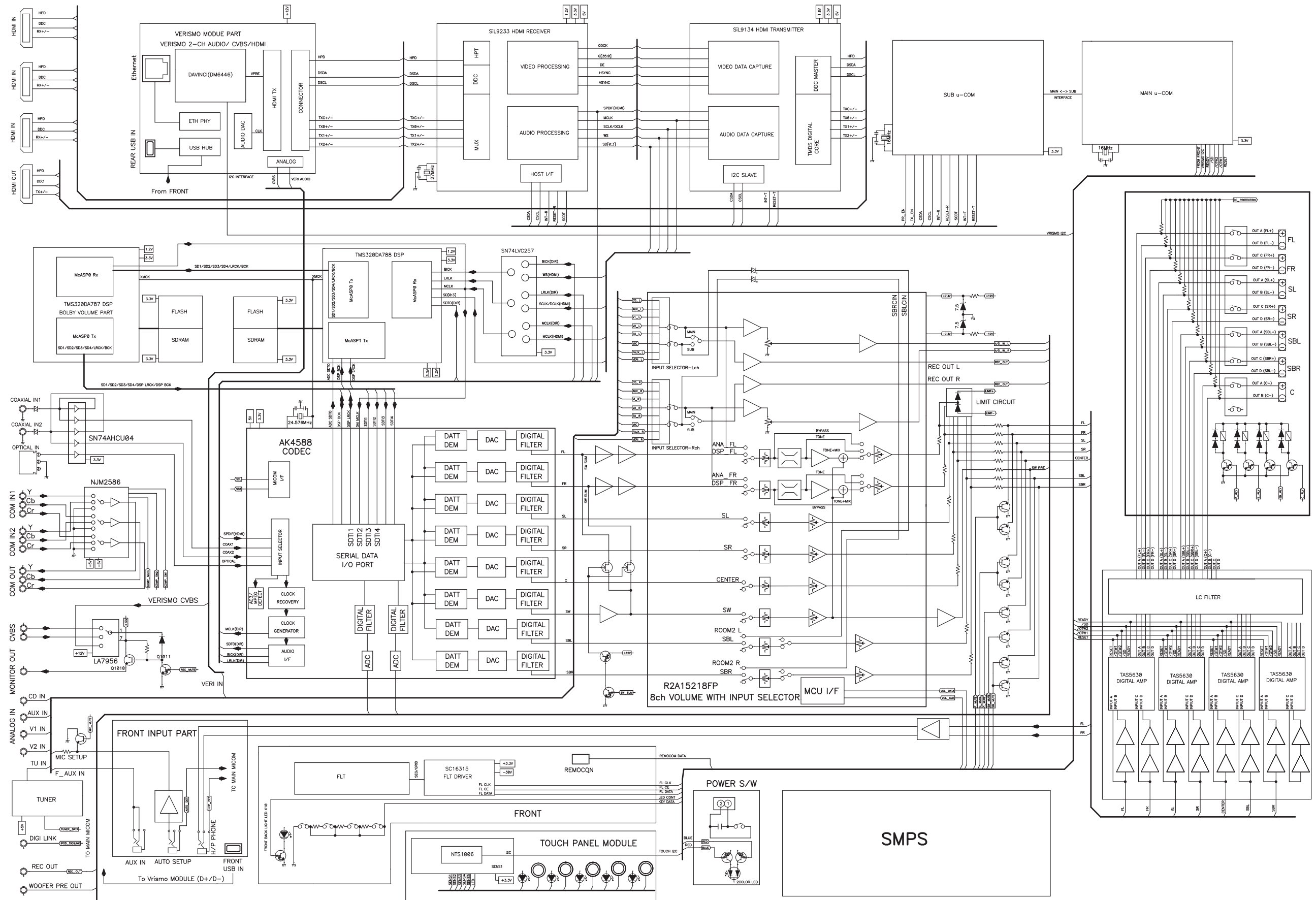
Symptom	Cause and Remedy	Ref No.
Power On Failure 1. FLT does not light up. 2. STANDBY LED does not light up.	A) AC-Cord check. B) PowerTrans (Main/Standby) check. C) Fuse's disconnection check. D) Connector's disconnection or disjunction. Change or close insertion of the connector. E) Inferior Standby switch. F) VFD Driver IC & Resonator check. 1. VFD Driver IC VCC (+3.3V) check. 2. VFD Driver clock pulse check.	F 811 CN811, CN812, CN261, CN281 SW803, SW804 IC800 SC16315 IC800 Pin No13 IC800 Pin No5
Fuse Disconnection. (Power On)	A) Inferior transformer. B) AMP drive TR out. (POWER TR) C) AMP drive TR out. (POWER TR) D) AMP drive TR out. (POWER TR) IC120(C+,C-) E) Voltage check. 1. PVDD (+40V)	T281 IC114(FL+, FL-, FR+, FL-) IC115(SL+, SL-, SR+, SL-) IC119(SBR+, SBR-, SBL+, SBR-) CN241, CN111
Key Disorder. (Push key, Touch key)	A) Key's being pushed check. B) Key signal input components inferior. C) Key PORT check. D) Touch key signal check. E) μ -COM IC inferior 1. μ -COM IC VCC +3.3V check.	IC107 Pin No. (91, 94, 95, 97) IC107 Pin No. (18, 29, 30) IC107 Pin No. (16, 62, 98, 99)
Power Off in 2~3 sec. after Power On.	A) Protection circuit check. 1. Output DC check. 2. μ -COM IC protection terminal check. 3. μ -COM IC Shutdown terminal check. B) SLEEP MODE cancellation.	SPK OUT : 20V (FL+,FL-,FR+,FL-,SL+,SL-,SR+,SR-, ...) IC107 (88) IC107 (83, 84, 85)
Bump Sound (During input-select switch's change.)	A) FRONT SW's out and inferior. μ -COM input control PORT check. B) μ -COM VOL IC control check C) μ -COM Mute control check.	SW (800, 801) IC107 Pin No. (91) IC107 Pin No. (49, 50) IC107 Pin No. (54, 55, 56, 57)

Symptom	Cause and Remedy	Ref No.
Sounds from Speaker when Headphone's connected.	A) NOT Supported Headphone Detect. Push the Speaker On/Off Button (Speaker off).	
Bass / Treble Control Failure.	A) Volume IC check. 1. Resistor/Capacitor correction figure check. (Bass) 2. Resistor/Capacitor correction figure check. (Treble)	IC 104 IC 109 PIN No.(26, 27, 32, 33) IC 109 PIN No.(28, 34)
AMP Sound Dead. 1. "LEFT" Channel dead. 2. "RIGHT" Channel dead. 3. "CENTER" Channel dead. 4. "REAR" Channel dead.	A) Signal Mute TR's inferior. B) Connector disconnection & disjunction. Change or close insertion of the connector. C) Speaker wire's disjunction. Close insertion of the speaker wire. D) Volume IC check. 1. IC voltage check.(+7.5)V, (-7.5)V 2. IC control data check. 3. IC signal IN/OUT check.	Q 125, 126, 127, 128 CP(117, 118) IC No. (104) IC Pin No. (30, 52) IC Pin No. (49, 50)
Dolby Digital/DTS Failure. (DSP Sound Mode)	A) IC Regulator check. DSP I/O + (3.3)V, DSP CORE +(1.2)V CODEC +(5)V, CODEC +(3.3)V B) DIR check. 1. OSC check. 2. BICK, LRCK, RDATA Check. 3. μ -COM interface Port Check. 4. Signal out check. C) DSP check. 1. MCK, BCK, LRCK check. 2. μ -COM interface Port Check. 3. SDATA 1, 2, 3, 4 Check. D) DSP VOL Check. 1. LRCK/BCK/SDATA check. 2. μ -COM interface Port Check.	REG 1001, 1002 IC No. (1000), REG 1000 IC 1000 X-TAL 1000 IC Pin No. (14, 15, 16, 17, 18, 19) IC Pin No. (21, 22, 31) IC Pin No. (35,37,39,41,43,45,47,49) IC Pin No. (1007) IC Pin No. (2, 139, 141) IC Pin No. (107, 108, 110) IC Pin No. (134, 135, 137, 138) IC No. (1010) IC Pin No. (2,139,141,134,135,137,138) IC Pin No. (107,108,110)
Video Output Dead.	A) Video Component Regulator voltage check. 1. DC voltage check. +(12)V 2. DC voltage check. -(5)V B) μ -COM control data check. C) Video Component Mute port check. D) Video Composite voltage check. 1. DC voltage check. +(5)V E) Video Composite Mute port check.	IC No. (102) IC Pin No. (7, 21) IC Pin No. (16, 18) IC Pin No. (2, 3, 4) IC Pin No. (23) IC No. (100) IC Pin No. (7) IC (107) Pin No. (22)

Symptom	Cause and Remedy	Ref No.
Remote Controller Failure.	A) Battery check. B) RMC IC & Resonator inferior. 1. μ -COM IC B+(3.3)V check. 2. REMOCON data check.	IC No. (107) / IC Pin No.(82)
FM Failure.	A) Battery check. B) RMC IC & Resonator inferior. 1. μ -COM IC B+(3.3)V check. 2. Remocon data check.	IC (107) Pin No. (40, 42, 43, 44, 75)
Stereo Effect Failure. Stereo does not light up.	A) TUNER voltage check. 1. DC voltage. +(5)V B) μ -COM control data check.	IC (107) Pin No. (40, 42, 43, 44, 75)
Tuner Sound Dead. 1. "L / R" Channel dead. 2. "LEFT" Channel dead. 3. "RIGHT" Channel dead.	A) Connector's disconnection or disjunction. Change or close insertion of the connector. B) μ -COM control data check. C) TUNER OUT signal check.	IC (107) Pin No. (40, 42, 43, 44, 75) IC (104) Pin No. (58, 59)
HDMI Output Dead.	A) IC Regulator check. 1. DC voltage check. +(1.8)V 2. DC voltage check. +(3.3)V 3. DC voltage check. +(5)V B) μ -COM control data check. Selector control data check.	A) Voltage check. REG. (1001,1002,1003,1004) IC (1002,1003) Pin No. (2, 4) L1036 check. R1049 check. IC (1005) Pin No. (91,92,35,36,37,19)

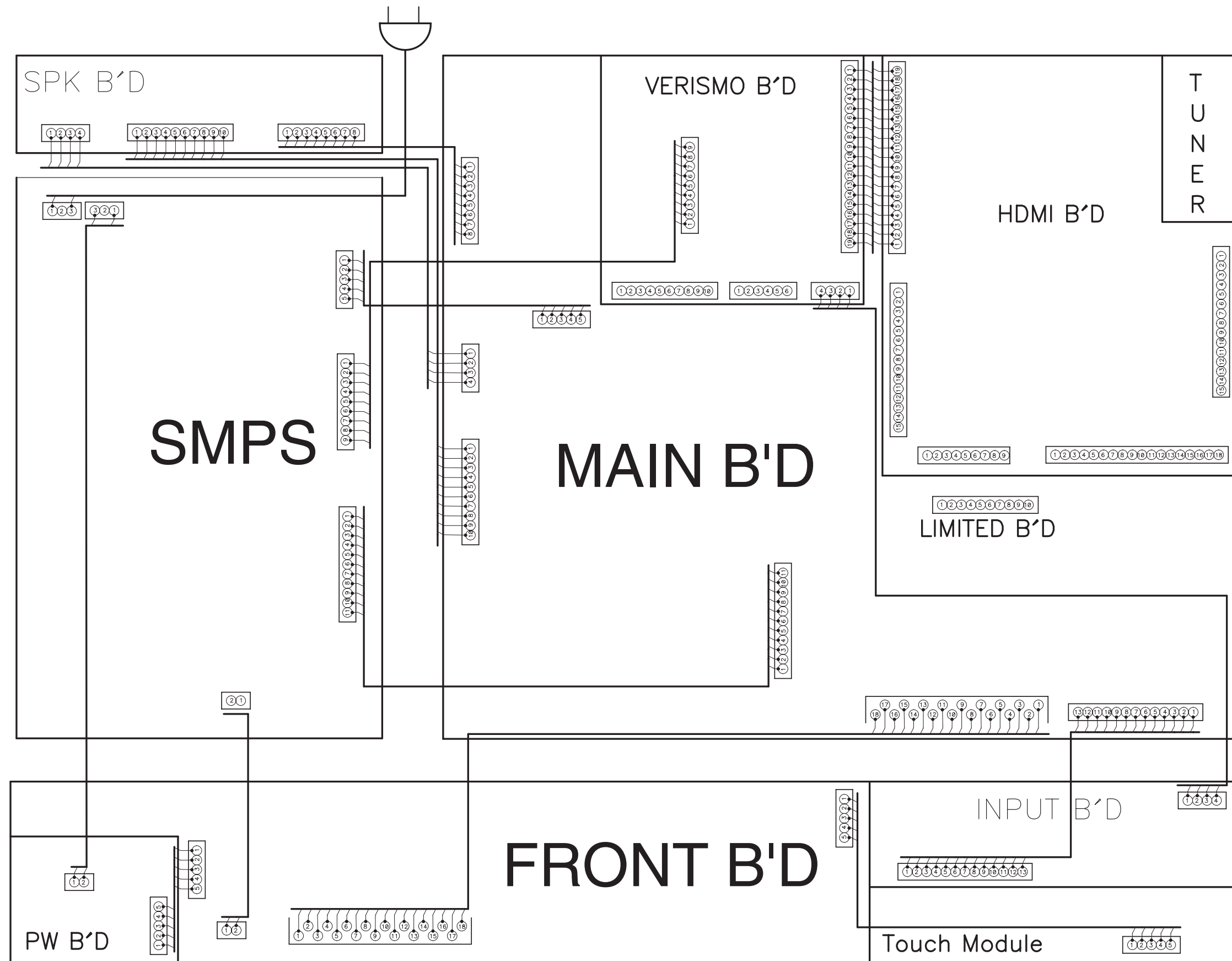
BLOCK DIAGRAM

Model : R-904/R-904N



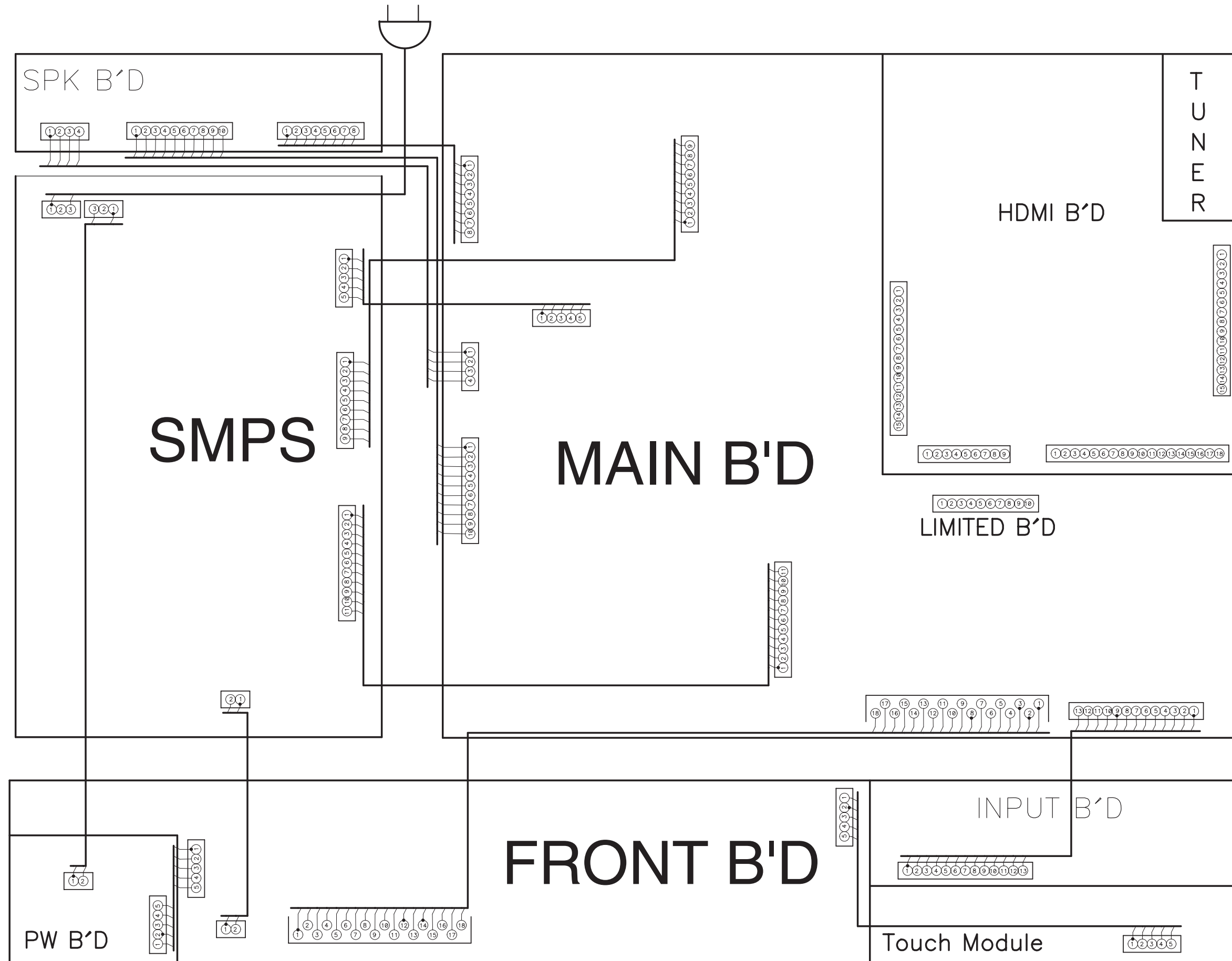
WIRING DIAGRAM(A)

Model : R-904/R-904N



WIRING DIAGRAM(G)

Model : R-904/R-904N



MECHANICAL PARTS LIST_1

Model : R-904/R-904N

NO	PART NAME	R904N (A) HK090601		R904 (A) HK090602		R904 (G) HK090603		R904NW (A) HK090606		R904W (G) HK090607	
		PART No.	EA	PART No.	EA	PART No.	EA	PART No.	EA	PART No.	EA
1	Knob Power	5088-21081-803-0SZ	1	5088-21081-803-0SZ	1	5088-21081-803-0SZ	1	5088-21081-804-0SZ	1	5088-21081-804-0SZ	1
2	Window	5077-21284-300-0S	1	5077-21284-301-0S	1	5077-21284-301-0S	1	5077-21284-310-0S	1	5077-21284-311-0S	1
3	Cover USB	4310-21489-500-0S	1	_____		_____		4310-21489-510-0S	1	_____	
4	Panel Front	3067-21472-100-0S	1	3067-21472-110-0S	1	3067-21472-111-0S	1	3067-21472-130-0S	1	3067-21472-140-0S	1
5	Reflector	5190-21009-300-0S	1	5190-21009-300-0S	1	5190-21009-300-0S	1	5190-21009-300-0S	1	5190-21009-300-0S	1
6	Holder Reflector	4320-21092-100-0S	1	4320-21092-100-0S	1	4320-21092-100-0S	1	4320-21092-100-0S	1	4320-21092-100-0S	1
7	Plate Diffuser	4477-21181-200-0S	1	4477-21181-200-0S	1	4477-21181-200-0S	1	4477-21181-200-0S	1	4477-21181-200-0S	1
8	PCB Touch	E100-02020-001-0S	1	E100-02020-001-0S	1	E100-02020-001-0S	1	E100-02020-001-0S	1	E100-02020-001-0S	1
9	Indicator Power	5160-21024-300-0S	1	5160-21024-300-0S	1	5160-21024-300-0S	1	5160-21024-300-0S	1	5160-21024-300-0S	1
10	PCB PW_LED	7028-06879-301-0	1	7028-06879-301-0	1	7028-06879-301-0	1	7028-06879-301-0	1	7028-06879-301-0	1
11	PCB PW_SW	7028-06879-401-0	1	7028-06879-401-0	1	7028-06879-401-0	1	7028-06879-401-0	1	7028-06879-401-0	1
12	Button 2-Key	5090-21420-100-0S	2	5090-21420-100-0S	2	5090-21420-100-0S	2	5090-21420-100-0S	2	5090-21420-100-0S	2
13	PCB Input	7028-06879-201-0	1	7028-06879-202-0	1	7028-06879-202-0	1	7028-06879-206-0	1	7028-06879-207-0	1
14	PCB Front	7028-06879-101-0	1	7028-06879-101-0	1	7028-06879-101-0	1	7028-06879-101-0	1	7028-06879-101-0	1
15	Chassis Main	3200-21322-600-0S	1	3200-21322-600-0S	1	3200-21322-600-0S	1	3200-21322-600-0S	1	3200-21322-600-0S	1
16	Foot	4007-21058-100-0S	4	4007-21058-100-0S	4	4007-21058-100-0S	4	4007-21058-110-0S	4	4007-21058-110-0S	4
17	Cushion Foot	4050-21257-500-0S	4	4050-21257-500-0S	4	4050-21257-500-0S	4	4050-21257-500-0S	4	4050-21257-500-0S	4
18	Supporter	4070-00160-101-0S	5	4070-00160-101-0S	5	4070-00160-101-0S	5	4070-00160-101-0S	5	4070-00160-101-0S	5
19	PCB SMPS	8208-00081-001-0S	1	8208-00082-001-0S	1	8208-00083-001-0S	1	8208-00081-001-0S	1	8208-00083-001-0S	1
20	PCB Guide	7028-06879-501-0	1	7028-06879-501-0	1	7028-06879-501-0	1	7028-06879-501-0	1	7028-06879-501-0	1
21	PCB Main	7028-06878-101-0	1	7028-06878-102-0	1	7028-06878-103-0	1	7028-06878-101-0	1	7028-06878-103-0	1
22	Heat Sink	2120-21164-800-0S	1	2120-21164-800-0S	1	2120-21164-800-0S	1	2120-21164-800-0S	1	2120-21164-800-0S	1
23	PCB SPK	7028-06878-201-0	1	7028-06878-201-0	1	7028-06878-201-0	1	7028-06878-201-0	1	7028-06878-201-0	1
24	PCB CNT	7028-06878-401-0	1	_____		_____		7028-06878-401-0	1	_____	
25	PCB CNT1	7028-06879-601-0	1	7028-06879-601-0	1	7028-06879-601-0	1	7028-06879-601-0	1	7028-06879-601-0	1
26	PCB CNT2	7028-06879-701-0	1	7028-06879-701-0	1	7028-06879-701-0	1	7028-06879-701-0	1	7028-06879-701-0	1
27	PCB CNT3	7028-06879-801-0	1	7028-06879-801-0	1	7028-06879-801-0	1	7028-06879-801-0	1	7028-06879-801-0	1

MECHANICAL PARTS LIST_2

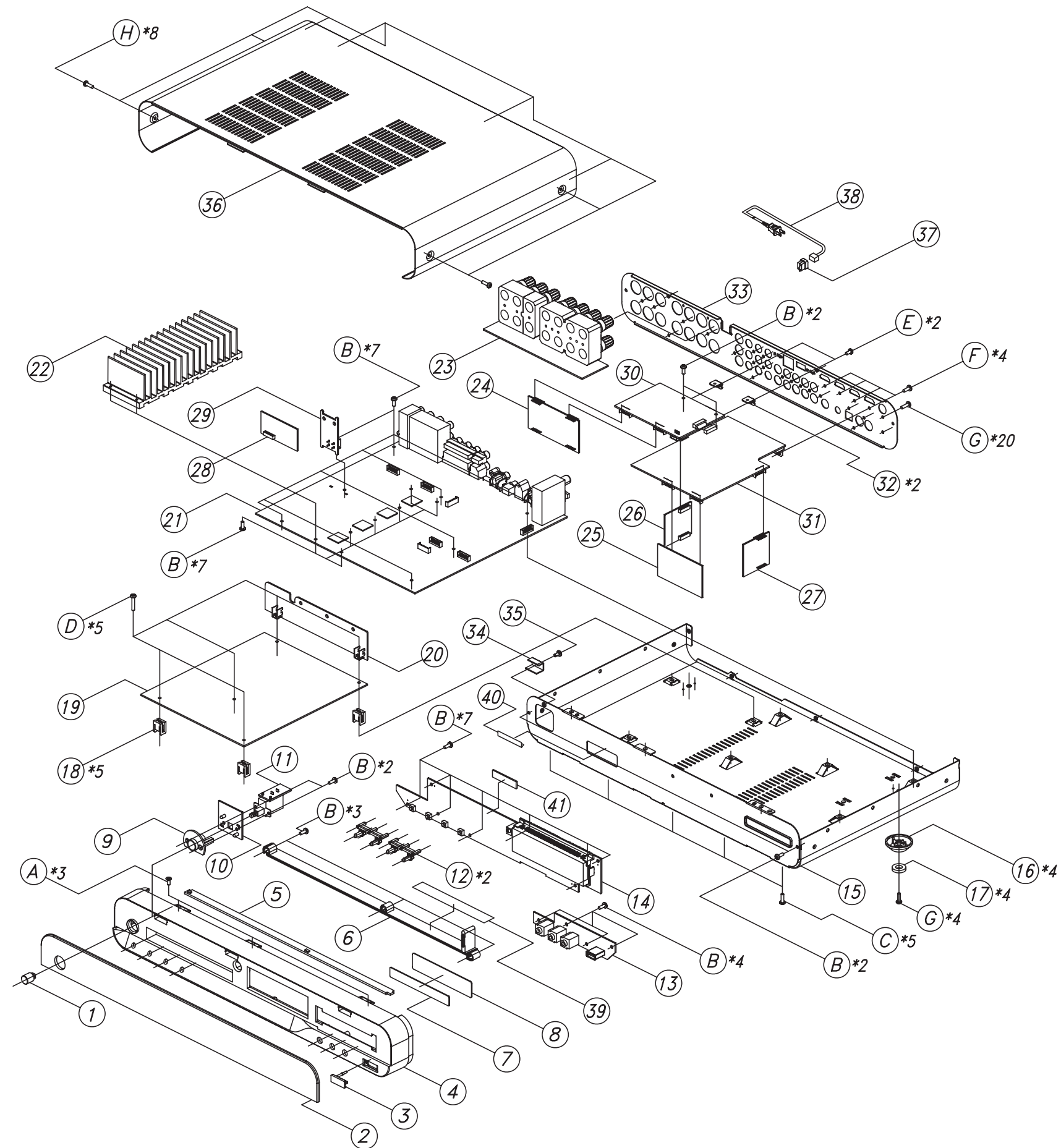
Model : R-904/R-904N

NO	PART NAME	R904N (A) HK090601		R904 (A) HK090602		R904 (G) HK090603		R904NW (A) HK090606		R904W (G) HK090607	
		PART No.	EA	PART No.	EA	PART No.	EA	PART No.	EA	PART No.	EA
28	PCB Limit	7028-06878-301-0	1	7028-06878-301-0	1	7028-06878-301-0	1	7028-06878-301-0	1	7028-06878-301-0	1
29	PCB Guide	7028-06878-501-0	1	7028-06878-501-0	1	7028-06878-501-0	1	7028-06878-501-0	1	7028-06878-501-0	1
30	PCB Verismo	E100-64460-001-0S	1	_____		_____		E100-64460-001-0S	1	_____	
31	PCB HDMI	7028-06880-101-0	1	7028-06880-102-0	1	7028-06880-102-0	1	7028-06880-101-0	1	7028-06880-102-0	1
32	Bracket PCB	4010-21454-600-0S	2	_____		_____		4010-21454-600-0S	2	_____	
33	Chassis Back	3207-21323-600-0S	1	3207-21323-610-0S	1	3207-21323-610-0S	1	3207-21323-601-0S	1	3207-21323-611-0S	1
34	Cover Safety	4310-21504-200-0S	1	4310-21504-200-0S	1	4310-21504-200-0S	1	4310-21504-200-0S	1	4310-21504-200-0S	1
35	Rivet	1560-04003-601-0S	1	1560-04003-601-0S	1	1560-04003-601-0S	1	1560-04003-601-0S	1	1560-04003-601-0S	1
36	Cabinet Top	3007-21159-600-0S	1	3007-21159-600-0S	1	3007-21159-600-0S	1	3007-21159-601-0S	1	3007-21159-601-0S	1
37	Stopper	4380-04016-201-0S	1	4380-04016-201-0S	1	4380-04016-201-0S	1	4380-04016-201-0S	1	4380-04016-201-0S	1
38	AC Cord	L068-12510-002-0S	1	L068-12510-002-0S	1	L068-25025-028-0S	1	L068-12510-002-0S	1	L068-25025-004-0S	1
39	TAPE ACETATE	1220-21005-900-0S	1	1220-21005-900-0S	1	1220-21005-900-0S	1	1220-21005-900-0S	1	1220-21005-900-0S	1
40	TAPE ACETATE	1220-21039-900-0S	1	1220-21039-900-0S	1	1220-21039-900-0S	1	1220-21039-900-0S	1	1220-21039-900-0S	1
41	Cushion	4050-21214-500-0S	1	4050-21214-500-0S	1	4050-21214-500-0S	1	4050-21214-500-0S	1	4050-21214-500-0S	1

	PART NAME	SPEC.	PART No.	EA		SPEC.	PART No.	EA	
				R904N (A) HK090601	R904 (A/G) HK090602~3			R904NW (A) HK090606	R904W (G) HK090607
A	Screw Tap Tite	+2S 3*8 B-TYPE BK/FH	B020-03008-3F1-0S	3	3	+2S 3*8 B-TYPE NI/FH	B020-03008-4F1-0S	3	3
B	Screw Tap Tite	+2S 3*8 B-TYPE ZNW/BH	B020-03008-1B1-0S	34	32	+2S 3*8 B-TYPE ZNW/BH	B020-03008-1B1-0S	39	37
C	Screw Tap Tite	+2S 3*8 B-TYPE BK/BH	B020-03008-3B1-0S	5	5				
D	Screw Tap Tite	+2S 3*17 B-TYPE ZNW/BH	B020-03017-1B1-0S	5	5	+2S 3*17 B-TYPE ZNW/BH	B020-03017-1B1-0S	5	5
E	Screw Tap Tite	+2S 3*6 B-TYPE BK/BH	B020-03006-3B1-0S	2	—	+2S 3*6 B-TYPE BK/BH	B020-03006-3B1-0S	2	—
F	Screw Tap Tite	+3S 3*8 BK/BH	B020-93008-3B1-0S	4	4	+3S 3*8 BK/BH	B020-93008-3B1-0S	4	4
G	Screw Tap Tite	+2S 3*10 B-TYPE(DOT) BK/BH	B020-03010-3B1-1S	32	32	+2S 3*10 B-TYPE(DOT) BK/BH	B020-03010-3B1-1S	24	24
H	Screw Tap Tite					+2S 3*10 B-TYPE(DOT) NI/BH	B020-03010-4B1-0S	8	8

EXPLODED VIEW

Model : R-904/R-904N



ELECTRICAL PARTS LIST

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028068781010	A
PCB1	ASSEMBLY P.C.B BOARD MAIN						7028068781030	G
	CAPACITORS							
C101 ~ C109	C,CERAMIC CHIP T.C	100 pF	50V	J	9		D010101167160S	A/G
C112 ~ C119	C,CERAMIC CHIP T.C	220 pF	50V	J	8		D010221167160S	A/G
C120 ~ C121	C,CERAMIC CHIP HIK	4700 pF	50V	K	2		D011472777160S	A/G
C122	C,ELECT GE 85C	470 uF	16V	M	1		D040471083080S	A/G
C123 ~ C124	C,ELECT GE 85C	47 uF	16V	M	2		D040470083080S	A/G
C125	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A
C126 ~ C133	C,ELECT GE 85C	10 uF	50V	M	8		D040100087070S	A/G
C134	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C135 ~ C137	C,ELECT GE 85C	470 uF	6.3V	M	3		D040471081070S	A/G
C138	C,ELECT GE 85C	470 uF	16V	M	1		D040471083080S	A/G
C139 ~ C140	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C141 ~ C148	C,ELECT GE 85C	10 uF	50V	M	8		D040100087070S	A/G
C149	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C152	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C153, C155	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C156	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C157	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C158 ~ C159	C,ELECT GE 85C	1 uF	50V	M	2		D040010087150S	A/G
C160	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C162	C,ELECT GE 85C	1 uF	50V	M	1		D040010087150S	A/G
C164	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C165	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C167	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C169, C171	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C172	C,ELECT GE 85C	100 uF	10V	M	1		D040101082090S	A/G
C173	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C174 ~ C175	C,CERAMIC CHIP HIK	680 pF	50V	K	2		D011681777160S	A/G
C176 ~ C184	C,ELECT CHIP(GE)	10 uF	16V	M	9		D050100083460S	A/G
C185	C,CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	A/G
C186	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C187	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C188	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C189	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C190	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C191 ~ C192	C,CERAMIC CHIP HIK	680 pF	50V	K	2		D011681777160S	A/G
C193 ~ C194	C,ELECT GE 85C	100 uF	16V	M	2		D040101083070S	A/G
C195	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C196	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C197	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C198	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C199 ~ C200	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C202	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C203	C,CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	A/G
C205	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C206	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/G
C207	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C208	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/G
C209	C,FILM POLYESTER	0.15 uF	63V	K	1		D020154078060S	A/G
C210	C,FILM POLYESTER	0.047 uF	100V	J	1		D02047306C060S	A/G
C211	C,FILM POLYESTER	0.022 uF	100V	J	1		D02022306C060S	A/G
C212	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C213	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C214 ~ C215	C,ELECT CHIP(GE)	10 uF	16V	M	2		D050100083460S	A/G
C217	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C218	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C220	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C221	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C222 ~ C223	C,ELECT CHIP(GE)	10 uF	16V	M	2		D050100083460S	A/G
C224	C,CERAMIC CHIP HIK	680 pF	50V	K	1		D011681777160S	A/G
C225	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C226	C,FILM POLYESTER	0.022 uF	100V	J	1		D02022306C060S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
C227	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C228	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C229	C,FILM POLYESTER	0.047 uF	100V	J	1		D02047306C060S	A/G
C230	C,FILM POLYESTER	0.15 uF	63V	K	1		D020154078060S	A/G
C231	C,CERAMIC CHIP HIK	2200 pF	50V	K	1		D011222777160S	A/G
C234	C,ELECT CHIP(GE)	10 uF	50V	M	1		D050100087200S	A/G
C235 ~ C236	C,CERAMIC CHIP HIK	680 pF	50V	K	2		D011681777160S	A/G
C237	C,ELECT CHIP(GE)	10 uF	50V	M	1		D050100087200S	A/G
C238	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C239	C,ELECT CHIP(GE)	10 uF	50V	M	1		D050100087200S	A/G
C240	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C241 ~ C242	C,CERAMIC CHIP HIK	680 pF	50V	K	2		D011681777160S	A/G
C243	C,ELECT GE 85C	10 uF	16V	M	1		D040100083100S	A
C244	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C245 ~ C246	C,ELECT CHIP(GE)	10 uF	16V	M	2		D050100083460S	A/G
C247	C,ELECT GE 85C	10 uF	16V	M	1		D040100083100S	A
C248 ~ C252	C,ELECT CHIP(GE)	10 uF	50V	M	5		D050100087200S	A/G
C253 ~ C254, C256	C,CERAMIC CHIP T.C	0.01 uF	50V	K	3		D010103777160S	A/G
C257	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C258	C,ELECT GE 85C	0.33 uF	50V	M	1		D040R33087070S	A/G
C259 ~ C265	C,ELECT CHIP(GE)	10 uF	50V	M	7		D050100087200S	A/G
C266 ~ C270	C,CERAMIC CHIP T.C	0.01 uF	50V	K	5		D010103777160S	A/G
C271	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C272 ~ C275	C,CERAMIC CHIP T.C	0.01 uF	50V	K	4		D010103777160S	A/G
C276	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C277	C,ELECT CHIP(GE)	0.1 uF	50V	M	1		D050R10080010S	A/G
C278 ~ C279	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C280	C,ELECT CHIP(GE)	100 uF	16V	M	1		D050101083660S	A/G
C281	C,ELECT GE 85C	10 uF	50V	M	1		D040100087070S	A/G
C282 ~ C283	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C284 ~ C285	C,CERAMIC CHIP HIK	0.1 uF	50V	Z	2		D011104597160S	A/G
C286 ~ C287	C,ELECT CHIP(GE)	100 uF	16V	M	2		D050101083660S	A/G
C288 ~ C289	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G
C290	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C291 ~ C292	C,CERAMIC CHIP T.C	22 pF	50V	J	2		D010220167160S	A/G
C293 ~ C294	C,ELECT CHIP(GE)	10 uF	50V	M	2		D050100087200S	A/G
C295 ~ C296	C,ELECT GE 85C	0.1 uF	50V	M	2		D040R10087080S	A/G
C297 ~ C298	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C299	C,CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	A/G
C300	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
C301	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C302 ~ C303	C,CERAMIC CHIP T.C	22 pF	50V	J	2		D010220167160S	A/G
C304	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C305 ~ C312	C,CERAMIC CHIP T.C	0.01 uF	50V	K	8		D010103777160S	A/G
C313	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C314	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C315	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C316 ~ C319	C,CERAMIC CHIP T.C	100 pF	50V	J	4		D010101167160S	A/G
C320 ~ C323	C,ELECT CHIP(GE)	47 uF	25V	M	4		D050470084210S	A/G
C324 ~ C325	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G
C326 ~ C327	C,ELECT CHIP(GE)	10 uF	50V	M	2		D050100087200S	A/G
C328 ~ C333	C,CERAMIC CHIP T.C	100 pF	50V	J	6		D010101167160S	A/G
C334 ~ C335	C,ELECT CHIP(GE)	10 uF	50V	M	2		D050100087200S	A/G
C336 ~ C339	C,CERAMIC CHIP T.C	100 pF	50V	J	4		D010101167160S	A/G
C340	C,ELECT GE 85C	47 uF	25V	M	1		D040470084070S	A/G
C341 ~ C345	C,CERAMIC CHIP HIK	0.1 uF	50V	K	5		D011104577160S	A/G
C346 ~ C349	C,CERAMIC CHIP T.C	100 pF	50V	J	4		D010101167160S	A/G
C350	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C351 ~ C352	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G
C353	C,ELECT GE 85C	47 uF	25V	M	1		D040470084070S	A/G
C354 ~ C355	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G
C356 ~ C363	C,ELECT CHIP(GE)	10 uF	16V	M	8		D050100083460S	A/G
C364	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/G
C365	C,CERAMIC CHIP HIK	4700 pF	50V	K	1		D011472777160S	A/G
C366	C,CERAMIC CHIP HIK	4.7 uF	6.3V	K	1		D011475571160S	A/G
C367	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G

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C368 ~ C369	C,CERAMIC CHIP HIK	4.7 uF	6.3V	K	2	D011475571160S	A/G
C370	C,CERAMIC CHIP T.C	100 pF	50V	J	1	D010101167160S	A/G
C371	C,CERAMIC CHIP HIK	4700 pF	50V	K	1	D011472777160S	A/G
C372	C,CERAMIC CHIP HIK	4.7 uF	6.3V	K	1	D011475571160S	A/G
C373	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C374 ~ C375	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C376 ~ C377	C,ELECT CHIP(GE)	10 uF	50V	M	2	D050100087200S	A/G
C378 ~ C379	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577160S	A/G
C380 ~ C381	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C382 ~ C385	C,CERAMIC CHIP HIK	0.1 uF	50V	K	4	D011104577160S	A/G
C386 ~ C387	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C388	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C389 ~ C390	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C391	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C392 ~ C393	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C394 ~ C397	C,CERAMIC CHIP HIK	0.033 uF	100V	K	4	D01133357C201S	A/G
C398 ~ C399	C,ELECT GE 105C	1000 uF	50V	P	2	D041102037000S	A/G
C400	C,CERAMIC CHIP HIK	0.1 uF	100V	K	1	D01110457C201S	A/G
C401 ~ C402	C,CERAMIC CHIP HIK	2.2 uF	100V	K	2	D01122577C310S	A/G
C403 ~ C404	C,CERAMIC CHIP HIK	0.1 uF	100V	K	2	D01110457C201S	A/G
C405 ~ C406	C,CERAMIC CHIP HIK	2.2 uF	100V	K	2	D01122577C310S	A/G
C407	C,CERAMIC CHIP HIK	0.1 uF	100V	K	1	D01110457C201S	A/G
C408 ~ C411	C,CERAMIC CHIP HIK	0.033 uF	100V	K	4	D01133357C201S	A/G
C412	C,CERAMIC CHIP HIK	2.2 uF	100V	K	1	D01122577C310S	A/G
C413	C,CERAMIC CHIP HIK	0.1 uF	100V	K	1	D01110457C201S	A/G
C414	C,CERAMIC CHIP HIK	2.2 uF	100V	K	1	D01122577C310S	A/G
C415 ~ C416	C,CERAMIC CHIP HIK	0.1 uF	100V	K	2	D01110457C201S	A/G
C417	C,CERAMIC CHIP HIK	2.2 uF	100V	K	1	D01122577C310S	A/G
C418	C,ELECT GE 105C	1000 uF	50V	P	1	D041102037000S	A/G
C419	C,CERAMIC CHIP HIK	0.1 uF	100V	K	1	D01110457C201S	A/G
C420	C,CERAMIC CHIP HIK	2.2 uF	100V	K	1	D01122577C310S	A/G
C421 ~ C425	C,ELECT GE 105C	1000 uF	50V	P	5	D041102037000S	A/G
C426 ~ C433	C,CERAMIC CHIP HIK	330 pF	100V	K	8	D01133177C161S	A/G
C434 ~ C441	C,FILM POLYESTER	0.68 uF	100V	J	8	D02068406C050S	A/G
C442 ~ C447, C452 ~ C453	C,CERAMIC CHIP HIK	1000 pF	100V	K	8	D01110277C161S	A/G
C458 ~ C460	C,CERAMIC CHIP T.C	100 pF	50V	J	3	D010101167160S	A/G
C461 ~ C463	C,ELECT CHIP(GE)	47 uF	25V	M	3	D050470084210S	A/G
C464	C,CERAMIC CHIP T.C	100 pF	50V	J	1	D010101167160S	A/G
C465	C,ELECT CHIP(GE)	10 uF	50V	M	1	D050100087200S	A/G
C466 ~ C469	C,CERAMIC CHIP T.C	100 pF	50V	J	4	D010101167160S	A/G
C470 ~ C471	C,ELECT CHIP(GE)	10 uF	50V	M	2	D050100087200S	A/G
C472 ~ C475	C,CERAMIC CHIP T.C	100 pF	50V	J	4	D010101167160S	A/G
C476 ~ C478	C,CERAMIC CHIP HIK	0.1 uF	50V	K	3	D011104577160S	A/G
C479 ~ C484	C,CERAMIC CHIP T.C	100 pF	50V	J	6	D010101167160S	A/G
C485 ~ C490	C,ELECT CHIP(GE)	10 uF	16V	M	6	D050100083460S	A/G
C491	C,CERAMIC CHIP T.C	100 pF	50V	J	1	D010101167160S	A/G
C492	C,CERAMIC CHIP HIK	4700 pF	50V	K	1	D011472777160S	A/G
C493	C,CERAMIC CHIP HIK	4.7 uF	6.3V	K	1	D011475571160S	A/G
C494	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C495 ~ C496	C,CERAMIC CHIP HIK	4.7 uF	6.3V	K	2	D011475571160S	A/G
C497	C,CERAMIC CHIP T.C	100 pF	50V	J	1	D010101167160S	A/G
C498	C,CERAMIC CHIP HIK	4700 pF	50V	K	1	D011472777160S	A/G
C499	C,CERAMIC CHIP HIK	4.7 uF	6.3V	K	1	D011475571160S	A/G
C500	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C501 ~ C502	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C503 ~ C504	C,ELECT CHIP(GE)	10 uF	50V	M	2	D050100087200S	A/G
C505 ~ C506	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577160S	A/G
C507 ~ C508	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C509 ~ C512	C,CERAMIC CHIP HIK	0.1 uF	50V	K	4	D011104577160S	A/G
C513 ~ C514	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C515	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C516 ~ C517	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C518	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C519 ~ C520	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C521 ~ C524	C,CERAMIC CHIP HIK	0.033 uF	100V	K	4	D01133357C201S	A/G
C525 ~ C526	C,ELECT GE 105C	1000 uF	50V	P	2	D041102037000S	A/G

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C527	C,CERAMIC CHIP HIK 0.1 uF 100V K	1	D01110457C201S	A/G
C528 ~ C529	C,CERAMIC CHIP HIK 2.2 uF 100V K	2	D01122577C310S	A/G
C530 ~ C531	C,CERAMIC CHIP HIK 0.1 uF 100V K	2	D01110457C201S	A/G
C532 ~ C533	C,CERAMIC CHIP HIK 2.2 uF 100V K	2	D01122577C310S	A/G
C534	C,CERAMIC CHIP HIK 0.1 uF 100V K	1	D01110457C201S	A/G
C535 ~ C538	C,CERAMIC CHIP HIK 0.033 uF 100V K	4	D01133357C201S	A/G
C539	C,CERAMIC CHIP HIK 2.2 uF 100V K	1	D01122577C310S	A/G
C540	C,CERAMIC CHIP HIK 0.1 uF 100V K	1	D01110457C201S	A/G
C541	C,CERAMIC CHIP HIK 2.2 uF 100V K	1	D01122577C310S	A/G
C542	C,CERAMIC CHIP HIK 0.1 uF 100V K	1	D01110457C201S	A/G
C543	C,ELECT GE 105C 1000 uF 50V P	1	D041102037000S	A/G
C544	C,CERAMIC CHIP HIK 0.1 uF 100V K	1	D01110457C201S	A/G
C545	C,CERAMIC CHIP HIK 2.2 uF 100V K	1	D01122577C310S	A/G
C546	C,CERAMIC CHIP HIK 0.1 uF 100V K	1	D01110457C201S	A/G
C547	C,CERAMIC CHIP HIK 2.2 uF 100V K	1	D01122577C310S	A/G
C548 ~ C552	C,ELECT GE 105C 1000 uF 50V P	5	D041102037000S	A/G
C553 ~ C558	C,CERAMIC CHIP HIK 330 pF 100V K	6	D01133177C161S	A/G
C559 ~ C562	C,FILM POLYESTER 0.68 uF 100V J	4	D02068406C050S	A/G
C563 ~ C564	C,CERAMIC CHIP HIK 1000 pF 100V K	2	D01110277C161S	A/G
C565 ~ C566	C,FILM POLYESTER 0.68 uF 100V J	2	D02068406C050S	A/G
C567 ~ C568, C571 ~ C572	C,CERAMIC CHIP HIK 1000 pF 100V K	4	D01110277C161S	A/G
C586 ~ C587	C,ELECT CHIP(GE) 10 uF 50V M	2	D050100087200S	A/G
C588 ~ C589	C,CERAMIC CHIP T.C 0.01 uF 50V K	2	D010103777160S	A/G
R132	C,CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	A/G
	COILS			
L100 ~ L101	COIL,BEAD	2	D340160811210S	A/G
L102	COIL,FILTER-INDUCTOR	1	D3304R7000150S	A/G
L103 ~ L104	COIL,FILTER-INDUCTOR	2	D3302R2000150S	A/G
L105 ~ L106	COIL,BEAD	2	D340160811210S	A/G
L107 ~ L120	COIL,TOROIDAL(RING)	14	D305010300010S	A/G
L121 ~ L136	COIL,BEAD	16	D340321663800S	A/G
L141	COIL,BEAD	1	D340160811210S	A/G
	CONNECTORS			
CN100	CN.WAFER 2.0MM	1	L101100041510S	A/G
CP101	CN.WAFER 2.0MM	1	L101100040910S	A/G
CP102	CN.WAFER 2.0MM	1	L101100041810S	A/G
CP103	CN.WAFER 2.0MM	1	L101200100210S	A/G
CP107	CN.FPC 1.25MM	1	L131111800010S	A/G
CP108	CN.WAFER 2.0MM	1	L101200100810S	A/G
CP109	CN.WAFER 2.0MM	1	L101200101310S	A/G
CP110	CN.WAFER 2.5MM	1	L102526700300S	A/G
CP116	CN.WAFER 2.0MM	1	L101100041510S	A/G
CP117	CN.WAFER 2.5MM	1	L102526701000S	A/G
CP118	CN.WAFER 2.5MM	1	L102526700400S	A/G
CP119	CN.WAFER 2.0MM	1	L101200100810S	A/G
CP120	CN.WAFER 2.0MM	1	L101100041010S	A/G
CP121	CN.WAFER 2.0MM	1	L101100040610S	A
CP122	CN.WAFER 2.0MM	1	L101100041010S	A
	DIODES			
D100 ~ D101, D103 ~ D104, D108 ~ D128, D133	D,SWITCHING CHIP	26	K005041480030S	A/G
ZD100	D,ZENER	1	K06006R244520S	A/G
ZD101 ~ ZD102	D,ZENER	2	K06007R544520S	A/G
ZD105	D,ZENER	1	K06003R344520S	A/G
	INTERGRATED CIRCUITS			
IC100	IC,MONITOR SW	1	J171795600010S	A/G
IC101	IC,LINEAR-REGULATOR	1	J126780500110S	A/G
IC102	IC,MONITOR SW	1	J171258600010S	A/G
IC103	IC,LINEAR-REGULATOR	1	J126780500110S	A/G
IC104	IC,ELECT VR	1	J084152180010S	A/G
IC105	IC,LINEAR-REGULATOR	1	J126111733050S	A/G
IC106	IC,MEMORY-EEPROM	1	J000241600020S	A/G
IC107	IC,CPU MICRO PROCESS	1	J020303020030S	A/G
IC108	IC,LOGIC	1	J040740400290S	A/G
IC109 ~ IC112	IC,LINEAR OP	4	J121451000010S	A/G
IC113	IC,LINEAR-REGULATOR	1	J126111733050S	A/G

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IC114 ~ IC115	IC,ANALOG				2	J080563000010S	A/G
IC116 ~ IC118	IC,LINEAR OP				3	J121451000010S	A/G
IC119 ~ IC120	IC,ANALOG				2	J080563000010S	A/G
IC121	IC,LINEAR OP				1	J121455600010S	A/G
IC122 ~ IC126	IC,LINEAR OP				5	J121458000020S	A/G
	JACKS						
JACK102	TER,RCA 3PIN				1	G606305A1400YS	A/G
JACK103	TER,RCA 9PIN				1	G607902AD013YS	A/G
JACK104	TER,RCA 6PIN				1	G603603B05000S	A/G
JACK105	TER,RCA 2PIN				1	G601207AE020YS	A/G
JACK106	JACK,D3.5				1	G40130802000YS	A/G
JACK107	TER,RCA 2PIN				1	G601206A0200YS	A/G
JACK110	TER,RCA 1PIN				1	G600107B0100YS	A/G
	RESISTORS						
C219	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
J109 ~ J110	R,CHIP THICK	0 ohm	1/8W	J	2	C200000061300S	A/G
L137 ~ L139, L142 ~ L145	R,CHIP THICK	0 ohm	1/16W	J	7	C20000006M160S	A/G
R100	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R101	R,CHIP THICK	4.7 ohm	1/16W	J	1	C2004R706M160S	A/G
R102 ~ R103	R,CHIP THICK	75 ohm	1/16W	J	2	C20007506M160S	A/G
R104	R,CHIP THICK	75 ohm	1/16W	J	1	C20007506M160S	A
R105	R,CHIP THICK	5.1 kohm	1/16W	J	1	C20005126M160S	A/G
R106 ~ R107	R,CHIP THICK	75 ohm	1/16W	J	2	C20007506M160S	A/G
R108	R,CHIP THICK	330 ohm	1/16W	J	1	C20003316M160S	A/G
R109	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R112 ~ R113	R,CHIP THICK	150 ohm	1/16W	J	2	C20001516M160S	A/G
R114 ~ R120	R,CHIP THICK	330 ohm	1/16W	J	7	C20003316M160S	A/G
R121 ~ R122	R,CHIP THICK	75 ohm	1/16W	J	2	C20007506M160S	A/G
R123	R,CHIP THICK	5.1 kohm	1/16W	J	1	C20005126M160S	A/G
R124 ~ R125	R,CHIP THICK	75 ohm	1/16W	J	2	C20007506M160S	A/G
R126	R,CHIP THICK	5.1 kohm	1/16W	J	1	C20005126M160S	A/G
R127 ~ R128	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R129 ~ R131	R,CHIP THICK	75 ohm	1/16W	J	3	C20007506M160S	A/G
R137	R,CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S	A/G
R138	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R147	R,CHIP THICK	240 ohm	1/16W	J	1	C20002416M160S	A/G
R148	R,CHIP THICK	3.3 kohm	1/16W	J	1	C20003326M160S	A/G
R149	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M160S	A/G
R154	R,CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S	A/G
R155	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R156	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
R157 ~ R164	R,CHIP THICK	470 kohm	1/16W	J	8	C20004746M160S	A/G
R165	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/G
R168	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R169	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R170	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R172	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/G
R173	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R174	R,CHIP THICK	1.2 kohm	1/16W	J	1	C20001226M160S	A/G
R176, R178	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R179 ~ R181	R,CHIP THICK	10 kohm	1/16W	J	3	C20001036M160S	A/G
R182 ~ R184	R,CHIP THICK	47 kohm	1/16W	J	3	C20004736M160S	A/G
R191	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R193 ~ R194	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G
R200 ~ R201	R,CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S	A/G
R202 ~ R206, R209	R,CHIP THICK	4.7 kohm	1/16W	J	6	C20004726M160S	A/G
R210 ~ R211	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R213	R,METAL FILM 100PPM	100 ohm	1.0W	J	1	C060010165060S	A/G
R217	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R218	R,CHIP THICK	15 kohm	1/16W	J	1	C20001536M160S	A/G
R220	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R221	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R222	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R223 ~ R224	R,CHIP THICK	470 kohm	1/16W	J	2	C20004746M160S	A/G
R225	R,CHIP THICK	3.9 kohm	1/16W	J	1	C20003926M160S	A/G
R227, R229	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G

REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
R231	R,METAL FILM 100PPM	100 ohm	1.0W	J	1	C060010165060S	A/G
R232	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R233 ~ R234	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G
R235	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
R236	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R237	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R238	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R240	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R241	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R242	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R243 ~ R244	R,CHIP THICK	470 kohm	1/16W	J	2	C20004746M160S	A/G
R245	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R248	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R250	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R251	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R252	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R253, R256	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G
R257 ~ R258	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R262	R,CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S	A/G
R263	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R264	R,CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S	A/G
R268 ~ R270	R,CHIP THICK	4.7 kohm	1/16W	J	3	C20004726M160S	A/G
R271	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R272 ~ R274	R,CHIP THICK	4.7 kohm	1/16W	J	3	C20004726M160S	A/G
R275	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R276, R278	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R279	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R280	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R281	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R283	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R284 ~ R285	R,CHIP THICK	470 kohm	1/16W	J	2	C20004746M160S	A
R287 ~ R288, R292, R294 ~ R297, R299	R,CHIP THICK	4.7 kohm	1/16W	J	8	C20004726M160S	A/G
R300 ~ R301	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R304, R308	R,CHIP THICK	47 kohm	1/16W	J	2	C20004736M160S	A/G
R309 ~ R316	R,CHIP THICK	1 kohm	1/16W	J	8	C20001026M160S	A/G
R317 ~ R318	R,CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S	A/G
R319 ~ R320	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G
R321 ~ R324	R,CHIP THICK	470 kohm	1/16W	J	4	C20004746M160S	A/G
R325	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
R326 ~ R329	R,CHIP THICK	1 kohm	1/16W	J	4	C20001026M160S	A/G
R330 ~ R334	R,CHIP THICK	470 ohm	1/16W	J	5	C20004716M160S	A/G
R335	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R336	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R337 ~ R339	R,CHIP THICK	100 kohm	1/16W	J	3	C20001046M160S	A/G
R340	R,CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S	A/G
R341	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R342	R,CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S	A/G
R343	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R344	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R345 ~ R346	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G
R347	R,CHIP THICK	220 kohm	1/16W	J	1	C20002246M160S	A/G
R348 ~ R360	R,CHIP THICK	10 kohm	1/16W	J	13	C20001036M160S	A/G
R361	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R362	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R363	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R364	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R365 ~ R371	R,CHIP THICK	47 kohm	1/16W	J	7	C20004736M160S	A/G
R372 ~ R374	R,CHIP THICK	10 kohm	1/16W	J	3	C20001036M160S	A/G
R375	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S	A/G
R376	R,CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S	A/G
R378	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S	A/G
R379	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R380	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S	A/G
R381	R,CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S	A/G
R382 ~ R383	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G

REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
R384 ~ R385	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R386 ~ R387	R,METAL FILM 100PPM	56 ohm	1/4W	J	2	C060056063050S	A/G
R388 ~ R389	R,CHIP THICK	47 kohm	1/16W	J	2	C20004736M160S	A/G
R390	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R391 ~ R392	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R393 ~ R394	R,METAL FILM 100PPM	56 ohm	1/4W	J	2	C060056063050S	A/G
R396	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R397	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R398 ~ R399	R,CHIP THICK	4.3 kohm	1/16W	J	2	C20004326M160S	A/G
R400	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M160S	A/G
R401 ~ R402	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G
R403	R,CHIP THICK	3.3 kohm	1/16W	J	1	C20003326M160S	A/G
R404 ~ R405	R,CHIP THICK	2.2 kohm	1/16W	J	2	C20002226M160S	A/G
R406	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
R407 ~ R408	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G
R410 ~ R411	R,CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S	A/G
R412 ~ R417	R,CHIP THICK	10 kohm	1/16W	J	6	C20001036M160S	A/G
R418 ~ R419	R,CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S	A/G
R422 ~ R424	R,CHIP THICK	10 kohm	1/16W	J	3	C20001036M160S	A/G
R425	R,CHIP THICK	0 ohm	0.10W	J	1	C200000060200S	A/G
R426 ~ R427	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G
R428	R,CHIP THICK	0 ohm	0.10W	J	1	C200000060200S	A/G
R429	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R430 ~ R431	R,CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S	A/G
R432 ~ R433	R,CHIP THICK	75 ohm	1/16W	J	2	C20007506M160S	A/G
R434	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R435 ~ R436	R,CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S	A/G
R438 ~ R439	R,CHIP THICK	5.6 kohm	1/16W	J	2	C20005626M160S	A/G
R440 ~ R441	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G
R442 ~ R445	R,CHIP THICK	5.6 kohm	1/16W	J	4	C20005626M160S	A/G
R446 ~ R447	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G
R448 ~ R453	R,CHIP THICK	5.6 kohm	1/16W	J	6	C20005626M160S	A/G
R454 ~ R455	R,CHIP THICK	750 kohm	1/16W	J	2	C20007546M160S	A/G
R456 ~ R461	R,CHIP THICK	5.6 kohm	1/16W	J	6	C20005626M160S	A/G
R462 ~ R463	R,CHIP THICK	750 kohm	1/16W	J	2	C20007546M160S	A/G
R464 ~ R465	R,CHIP THICK	5.6 kohm	1/16W	J	2	C20005626M160S	A/G
R466 ~ R473	R,CHIP THICK	100 ohm	1/16W	J	8	C20001016M160S	A/G
R474	R,METAL FILM 100PPM	1.2 kohm	1.0W	J	1	C060012265050S	A/G
R476	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G
R480	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/G
R481 ~ R483	R,CHIP THICK	100 ohm	1/16W	J	3	C20001016M160S	A/G
R485	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S	A/G
R489	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/G
R491 ~ R493	R,CHIP THICK	100 ohm	1/16W	J	3	C20001016M160S	A/G
R495 ~ R497	R,CHIP THICK	47 kohm	1/16W	J	3	C20004736M160S	A/G
R498 ~ R499	R,CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S	A/G
R500 ~ R501	R,CHIP THICK	3.3 kohm	1/16W	J	2	C20003326M160S	A/G
R502 ~ R505	R,CHIP THICK	10 ohm	1/16W	J	4	C20001006M160S	A/G
R506 ~ R507, R510 ~ R511	R,CHIP THICK	0 ohm	1/16W	J	4	C20000006M160S	A/G
R512 ~ R515	R,CHIP THICK	10 ohm	1/16W	J	4	C20001006M160S	A/G
R516 ~ R523	R,CHIP THICK	18 ohm	0.10W	J	8	C200018060200S	A/G
R532	R,CHIP THICK	5.6 kohm	1/16W	J	1	C20005626M160S	A/G
R533	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S	A/G
R534 ~ R536	R,CHIP THICK	5.6 kohm	1/16W	J	3	C20005626M160S	A/G
R537 ~ R538	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S	A/G
R539 ~ R542	R,CHIP THICK	5.6 kohm	1/16W	J	4	C20005626M160S	A/G
R543	R,CHIP THICK	750 kohm	1/16W	J	1	C20007546M160S	A/G
R544 ~ R548	R,CHIP THICK	5.6 kohm	1/16W	J	5	C20005626M160S	A/G
R549 ~ R550	R,CHIP THICK	750 kohm	1/16W	J	2	C20007546M160S	A/G
R551 ~ R552	R,CHIP THICK	5.6 kohm	1/16W	J	2	C20005626M160S	A/G
R553 ~ R558	R,CHIP THICK	100 ohm	1/16W	J	6	C20001016M160S	A/G
R564	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/G
R565 ~ R567	R,CHIP THICK	100 ohm	1/16W	J	3	C20001016M160S	A/G
R573	R,CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S	A/G
R574	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S	A/G
R575	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
R576	R,CHIP THICK	0 ohm	1/16W	J	1		C2000006M160S	A/G
R577 ~ R579	R,CHIP THICK	100 ohm	1/16W	J	3		C20001016M160S	A/G
R581 ~ R583	R,CHIP THICK	47 kohm	1/16W	J	3		C20004736M160S	A/G
R585 ~ R586	R,CHIP THICK	100 ohm	1/16W	J	2		C20001016M160S	A/G
R587 ~ R588	R,CHIP THICK	3.3 kohm	1/16W	J	2		C20003326M160S	A/G
R589 ~ R592	R,CHIP THICK	10 ohm	1/16W	J	4		C20001006M160S	A/G
R593 ~ R594, R597 ~ R598	R,CHIP THICK	0 ohm	1/16W	J	4		C20000006M160S	A/G
R599 ~ R602	R,CHIP THICK	10 ohm	1/16W	J	4		C20001006M160S	A/G
R603 ~ R608	R,CHIP THICK	18 ohm	0.10W	J	6		C200018060200S	A/G
R657 ~ R658	R,CHIP THICK	0 ohm	1/16W	J	2		C20000006M160S	A/G
R661 ~ R662	R,CHIP THICK	200 ohm	1/16W	J	2		C20002016M160S	A/G
	TRANSISTORS							
Q102	SEMI,CHIP TR/NPN 2SC				1		J5222875B0010S	A/G
Q103	SEMI,TR/GE NPN 2SC				1		J5023198Y0000S	A/G
Q106	SEMI,CHIP TR/NPN 2SC				1		J5222875B0010S	A/G
Q107	SEMI,CHIP TR/NPN 2SC				1		J522107S00210S	A/G
Q109	SEMI,CHIP TR/NPN 2SC				1		J5223875G0210S	A/G
Q110	SEMI,CHIP TR/PNP 2SA				1		J520010200210S	A/G
Q123 ~ Q124	SEMI,CHIP TR/NPN 2SC				2		J5222875B0010S	A/G
Q125 ~ Q128	SEMI,CHIP TR/PNP 2SA				4		J520010200210S	A/G
Q129	SEMI,CHIP TR/NPN 2SC				1		J522038750210S	A/G
Q130	SEMI,CHIP TR/PNP 2SA				1		J520010200210S	A/G
Q131	SEMI,CHIP TR/NPN 2SC				1		J522038750210S	A/G
Q132 ~ Q138	SEMI,CHIP TR/NPN 2SC				7		J5222875B0010S	A/G
Q139	SEMI,CHIP TR/NPN 2SC				1		J522010200210S	A/G
Q140	SEMI,CHIP TR/PNP 2SA				1		J520010200210S	A/G
Q141 ~ Q144	SEMI,CHIP TR/NPN 2SC				4		J5222875B0010S	A/G
Q145 ~ Q146, Q154	SEMI,CHIP TR/NPN 2SC				3		J522010200210S	A/G
Q155	SEMI,CHIP TR/PNP 2SA				1		J520010200210S	A/G
	MISCELLANEOUS							
CN109	CN,WIRE				1		L000401112050S	A/G
CN110	CN,WIRE				1		L000251092050S	A/G
CN111	CN,WIRE				1		L000171050040S	A/G
GND100 ~ GND101	TERMINAL				2		3790040886000S	A/G
J100, J111	CN,WIRE 1P				2		L045084006040S	A/G
JACK101	MODULE				1		E100116500040S	A/G
RES100	RESONATOR,CERAMIC				1		E830160000060S	A/G
RLY100	RELAY				1		G680240202030S	A/G
T101	TUNER,FM				1		E900004010630S	A
T101	TUNER,FM				1		E900104010630S	G
	P.C.B				1		7020068780001S	A/G
	HEAT SINK				1		2120211648000S	A/G
	RING,TER WIRE				1		8410900010010S	A/G
	SCREW,TAP TITE				7		B020030081B10S	A/G
PCB2	ASSEMBLY P.C.B BOARD SPK						7028068782010	A/G
	CAPACITORS							
C448 ~ C451, C454 ~ C457, C569 ~ C570, C573 ~ C576	C,CERAMIC CHIP HIK	0.01 uF	100V	K	14		D01110377C161S	A/G
C577 ~ C579	C,CERAMIC CHIP HIK	1000 pF	50V	K	3		D011102777160S	A/G
C580 ~ C581	C,ELECT GE 85C	220 uF	25V	M	2		D040221084060S	A/G
C582 ~ C583	C,CERAMIC CHIP HIK	1000 pF	50V	K	2		D011102777160S	A/G
C584 ~ C585	C,ELECT GE 85C	220 uF	25V	M	2		D040221084060S	A/G
C900	C,ELECT GE 85C	47 uF	25V	M	1		D040470084070S	A/G
C901 ~ C914	C,CERAMIC CHIP HIK	1000 pF	100V	K	14		D01110277C161S	A/G
C915	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C916 ~ C922	C,CERAMIC CHIP HIK	4700 pF	100V	K	7		D01147277C161S	A/G
C923	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C924	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C925	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/G
	DIODES							
D134 ~ D137, D900 ~ D903	D,SWITCHING CHIP				8		K005041480030S	A/G
	JACKS							
JACK108	TER,BOARD SCREW 6P				1		G613061270800S	A/G
JACK109	TER,BOARD SCREW 8P				1		G614108V1060MS	A/G
	RESISTORS							
R524 ~ R531, R609 ~ R614	R,CHIP THICK	3.3 ohm	1/16W	J	14		C2003R306M160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
R615 ~ R617	R,CHIP THICK	100 kohm	1/16W	J	3		C20001046M160S	A/G
R618	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/G
R619 ~ R620	R,CHIP THICK	100 kohm	1/16W	J	2		C20001046M160S	A/G
R621	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R622	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R623	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R624 ~ R625	R,CHIP THICK	10 kohm	1/16W	J	2		C20001036M160S	A/G
R626	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R627	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R628	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R629	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R630	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R631	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R632	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R633	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R634	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/G
R635	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R636	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R637 ~ R638	R,CHIP THICK	100 kohm	1/16W	J	2		C20001046M160S	A/G
R639	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R640	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R641	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R642	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R643	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R644	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R645	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R646 ~ R647	R,CHIP THICK	10 kohm	1/16W	J	2		C20001036M160S	A/G
R648	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R649	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R650	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R651	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R652	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
R653	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
	TRANSISTORS							
Q147	SEMI,CHIP TR/NPN 2SC				1		J522038750210S	A/G
Q148 ~ Q149	SEMI,CHIP TR/PNP 2SA				2		J520015040150S	A/G
Q150	SEMI,CHIP TR/NPN 2SC				1		J522038750210S	A/G
Q151 ~ Q152	SEMI,CHIP TR/PNP 2SA				2		J520015040150S	A/G
Q153	SEMI,CHIP TR/NPN 2SC				1		J522038750210S	A/G
Q900 ~ Q903	SEMI,CHIP TR/NPN 2SC				4		J522010200210S	A/G
	MISCELLANEOUS							
CN101	CN,WIRE				1		L000301102050S	A/G
CN102	CN,WIRE				1		L000301042050S	A/G
CN103	CN,WIRE 2MM				1		L002101080090S	A/G
RLY900 ~ RLY902	RELAY				3		G680120503020S	A/G
RLY903	RELAY				1		G680120503020S	A/G
PCB3	ASSEMBLY P.C.B BOARD LIMIT						7028068783010	A/G
	CAPACITORS							
C163	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C166	C,ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	A/G
C168	C,ELECT GE 85C	2.2 uF	50V	M	1		D0402R2087160S	A/G
C170, C201	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C204	C,ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	A/G
C216	C,ELECT GE 85C	47 uF	16V	M	1		D040470083080S	A/G
	CONNECTORS							
CN104	CN.WAFER 2.0MM				1		L101100031010S	A/G
	DIODES							
D105 ~ D107	D,SWITCHING CHIP				3		K005041480030S	A/G
ZD103	D,ZENER				1		K06007R544520S	A/G
	RESISTORS							
R187	R,CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	A/G
R188	R,CHIP THICK	470 ohm	1/16W	J	1		C20004716M160S	A/G
R189 ~ R190, R192	R,CHIP THICK	2.2 kohm	1/16W	J	3		C20002226M160S	A/G
R195	R,CHIP THICK	560 kohm	1/16W	J	1		C20005646M160S	A/G
R196	R,CHIP THICK	3.9 kohm	1/16W	J	1		C20003926M160S	A/G
R197	R,CHIP THICK	330 ohm	1/16W	J	1		C20003316M160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
R198	R,CHIP THICK	22 kohm	1/16W	J	1		C20002236M160S	A/G
R199	R,CHIP THICK	3.6 kohm	1/16W	J	1		C20003626M160S	A/G
R207	R,CHIP THICK	15 kohm	1/16W	J	1		C20001536M160S	A/G
R208	R,CHIP THICK	560 kohm	1/16W	J	1		C20005646M160S	A/G
R212	R,CHIP THICK	3.3 kohm	1/16W	J	1		C20003326M160S	A/G
R214 ~ R216, R219	R,CHIP THICK	10 kohm	1/16W	J	4		C20001036M160S	A/G
R226, R228	R,CHIP THICK	2.2 kohm	1/16W	J	2		C20002226M160S	A/G
R230, R239	R,CHIP THICK	1.3 kohm	1/16W	J	2		C20001326M160S	A/G
R246	R,CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	A/G
R247	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R249	R,CHIP THICK	560 kohm	1/16W	J	1		C20005646M160S	A/G
R254	R,CHIP THICK	22 kohm	1/16W	J	1		C20002236M160S	A/G
R255	R,CHIP THICK	3.6 kohm	1/16W	J	1		C20003626M160S	A/G
R259	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R260	R,CHIP THICK	560 kohm	1/16W	J	1		C20005646M160S	A/G
R265 ~ R267	R,METAL FILM 100PPM	1.2 kohm	1.0W	J	3		C060012265050S	A/G
	TRANSISTORS							
Q112	SEMI,CHIP TR/NPN 2SD				1		J5232114K0010S	A/G
Q113 ~ Q116	SEMI,TR/GE PNP 2SA				4		J5001268B0050S	A/G
Q117	SEMI,TR/GE NPN 2SC				1		J5023200B0050S	A/G
Q118 ~ Q120	SEMI,TR/GE PNP 2SA				3		J5001268B0050S	A/G
Q121	SEMI,CHIP TR/NPN 2SC				1		J522104S00210S	A/G
Q122	SEMI,CHIP TR/NPN 2SD				1		J5232114K0010S	A/G
PCB4	ASSEMBLY P.C.B BOARD CNT						7028068784010	A
CN105 ~ CN106	CN.WAFER 2.0MM				2		L101100030610S	A
CN107 ~ CN108	CN.WAFER 2.0MM				2		L101100031010S	A
R478	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A
R486	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A
PCB5	ASSEMBLY P.C.B BOARD GUIDE						7028068785010	A
PCB5	ASSEMBLY P.C.B BOARD GUIDE						7028068795010	A
PCB5	ASSEMBLY P.C.B BOARD GUIDE						7028068785010	G
PCB5	ASSEMBLY P.C.B BOARD GUIDE						7028068795010	G
	BRACKET				1		4010210196000S	A/A/G/G
PCB6	ASSEMBLY P.C.B BOARD FRONT						7028068791010	A/G
	CAPACITORS							
C800	C,ELECT GE 85C	10 uF	50V	M	1		D040100087080S	A/G
C801	C,CERAMIC CHIP HIK	0.047 uF	16V	K	1		D011473773160S	A/G
C803	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C804	C,ELECT GE 85C	100 uF	10V	M	1		D040101082090S	A/G
C805 ~ C807	C,CERAMIC CHIP T.C	100 pF	50V	J	3		D010101167160S	A/G
C808	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C809	C,ELECT GE 85C	10 uF	50V	M	1		D040100087080S	A/G
C810	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C811	C,CERAMIC CHIP HIK	0.047 uF	16V	K	1		D011473773160S	A/G
	COILS							
L801	COIL,FILTER-INDUCTOR				1		D330101001020S	A/G
	CONNECTORS							
CP800	CN.FPC 1.25MM				1		L131101800010S	A/G
CP801	CN.WAFER 2.0MM				1		L101200100520S	A/G
CP802	CN.WAFER 2.0MM				1		L101200100510S	A/G
	DIODES							
ZD800	D,ZENER				1		K06006R844520S	A/G
	INTERGRATED CIRCUITS							
IC800	IC,LINEAR-DRIVER				1		J127163150010S	A/G
	RESISTORS							
J829, J843, J845, J855 ~ J856	R,CHIP THICK	0 ohm	1/16W	J	5		C20000006M160S	A/G
R800	R,CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	A/G
R801 ~ R802	R,CHIP THICK	56 kohm	1/16W	J	2		C20005636M160S	A/G
R803	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
R804	R,CHIP THICK	56 kohm	1/16W	J	1		C20005636M160S	A/G
R805	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
R806	R,CHIP THICK	56 kohm	1/16W	J	1		C20005636M160S	A/G
R807	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
R808	R,CHIP THICK	82 kohm	1/16W	J	1		C20008236M160S	A/G
R809 ~ R818	R,CHIP THICK	56 kohm	1/16W	J	10		C20005636M160S	A/G
R819	R,CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
R820	R,CHIP THICK	1.5 kohm	1/16W	J	1		C20001526M160S	A/G
R821	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R822 ~ R834	R,CHIP THICK	56 kohm	1/16W	J	13		C20005636M160S	A/G
R835 ~ R836	R,CHIP THICK	100 ohm	1/16W	J	2		C20001016M160S	A/G
R837	R,CHIP THICK	56 kohm	1/16W	J	1		C20005636M160S	A/G
R838 ~ R845	R,CHIP THICK	100 ohm	1/16W	J	8		C20001016M160S	A/G
R879	R,CARBON FILM	100 ohm	1/4W	J	1		C000010163520S	A/G
R880	R,CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	A/G
R881	R,CARBON FILM	100 ohm	1/4W	J	1		C000010163520S	A/G
R882	R,CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	A/G
R883	R,CHIP THICK	220 ohm	1/16W	J	1		C20002216M160S	A/G
R884 ~ R885	R,CHIP THICK	100 ohm	1/16W	J	2		C20001016M160S	A/G
	TRANSISTORS							
Q800	SEMI,CHIP TR/NPN 2SC				1		J522010500210S	A/G
Q801	SEMI,CHIP TR/PNP 2SA				1		J520010500210S	A/G
Q802 ~ Q811, Q816 ~ Q817	SEMI,CHIP TR/NPN 2SC				12		J522010500210S	A/G
Q818 ~ Q819	SEMI,CHIP TR/PNP 2SA				2		J520010500210S	A/G
Q820 ~ Q823	SEMI,CHIP TR/NPN 2SC				4		J522010500210S	A/G
Q824 ~ Q825	SEMI,CHIP TR/PNP 2SA				2		J520010500210S	A/G
	MISCELLANEOUS							
CN802	CN,WIRE				1		L000151020190S	A/G
J807, J811 ~ J828, J830 ~ J842, J844, J846 ~ J854, J858	CN,WIRE 1P				43		L045084006040S	A/G
LED800 ~ LED809, LED812	LED,ROUND				11		K500036001130S	A/G
LED813	LED,ROUND				1		K500032000210S	A/G
RMC801	MODULE,REMOCON				1		E940349003810S	A/G
SW800 ~ SW803	SW,TACT				4		G180000270010S	A/G
	P.C.B				1		7020068790001S	A/G
	HOLDER				1		432004078301AS	A/G
	DISPLAY,FLT				1		K530080300010S	A/G
PCB7	ASSEMBLY P.C.B BOARD INPUT						7028068792010	A
PCB7	ASSEMBLY P.C.B BOARD INPUT						7028068792020	G
	CAPACITORS							
C814, C816	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C817	C,ELECT GE 85C	1 uF	50V	M	1		D040010087090S	A/G
C818	C,CERAMIC CHIP T.C	33 pF	50V	J	1		D010330167160S	A/G
C819 ~ C820	C,ELECT GE 85C	10 uF	50V	M	2		D040100087080S	A/G
C822	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A
C824	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/G
C826	C,ELECT GE 85C	1 uF	50V	M	1		D040010087090S	A/G
C828	C,ELECT GE 85C	10 uF	50V	M	1		D040100087080S	A/G
C829 ~ C830	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C831	C,CERAMIC CHIP T.C	33 pF	50V	J	1		D010330167160S	A/G
C832	C,CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	A/G
C833	C,ELECT GE 85C	1 uF	50V	M	1		D040010087090S	A/G
C835	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C836, C839	C,CERAMIC CHIP HIK	2200 pF	50V	K	2		D011222777160S	A/G
C844	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A
C845	C,ELECT GE 85C	10 uF	50V	M	1		D040100087080S	A/G
	COILS							
L802 ~ L811	COIL,BEAD				10		D340160811210S	A/G
L812	COIL,BEAD				1		D340160811210S	A
L813 ~ L815	COIL,BEAD				3		D340160811210S	A/G
	DIODES							
ZD801 ~ ZD803	D,ZENER				3		K06005R144520S	A/G
	INTERGRATED CIRCUITS							
IC801	IC,LINEAR OP				1		J121458000020S	A/G
	JACKS							
CN801	CN,PLUG CONTACT				1		G480040101410S	A
JACK800	JACK,D3.5				1		G401PJ354H40YS	A/G
JACK801 ~ JACK802	JACK,D3.5				2		G401PJ354H70YS	A/G
	RESISTORS							
C840, C842 ~ C843	R,CHIP THICK	0 ohm	1/16W	J	3		C20000006M160S	A/G
D802 ~ D803, D805 ~ D808	R,CHIP THICK	0 ohm	0.10W	J	6		C200000060200S	A/G
R847	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/G
R848	R,CHIP THICK	240 ohm	1/16W	J	1		C20002416M160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
R850	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
R851	R,CHIP THICK	240 ohm	1/16W	J	1		C20002416M160S	A/G
R852	R,CHIP THICK	470 kohm	1/16W	J	1		C20004746M160S	A/G
R853	R,CHIP THICK	33 kohm	1/16W	J	1		C20003336M160S	A/G
R854	R,CHIP THICK	470 kohm	1/16W	J	1		C20004746M160S	A/G
R855	R,CHIP THICK	240 ohm	1/16W	J	1		C20002416M160S	A/G
R856	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
R857	R,CHIP THICK	240 ohm	1/16W	J	1		C20002416M160S	A/G
R858	R,CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	A/G
R860	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/G
R861	R,CHIP THICK	100 kohm	1/16W	J	1		C20001046M160S	A/G
R863	R,CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A/G
R864	R,CHIP THICK	15 kohm	1/16W	J	1		C20001536M160S	A
R865	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
R866	R,CHIP THICK	15 kohm	1/16W	J	1		C20001536M160S	A
R867	R,CHIP THICK	33 kohm	1/16W	J	1		C20003336M160S	A/G
R868	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R869 ~ R870	R,CHIP THICK	10 ohm	1/16W	J	2		C20001006M160S	A
R871 ~ R872	R,CHIP THICK	330 ohm	1/16W	J	2		C20003316M160S	A/G
R873	R,CHIP THICK	47 ohm	1/16W	J	1		C20004706M160S	A/G
R874	R,CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	A/G
R875	R,CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	A/G
R876 ~ R877	R,CHIP THICK	100 kohm	1/16W	J	2		C20001046M160S	A/G
R878	R,CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	A/G
	MISCELLANEOUS							
CN803	CN,WIRE 2MM				1		L002401050050S	A
CP804	CN,WIRE 2MM				1		L002351130020S	A/G
J800, J804 ~ J806, J808	CN,WIRE 1P				5		L045084006040S	A/G
J809 ~ J810	CN,WIRE 1P				2		L045084006040S	A
LUG	RING,TER WIRE				1		8410151030010S	A/G
PCB8	ASSEMBLY P.C.B BOARD PW_LED						7028068793010	A/G
J802	R,CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A/G
J803	R,CHIP THICK	0 ohm	1/8W	J	1		C200000061300S	A/G
R849, R862	R,CHIP THICK	180 ohm	1/16W	J	2		C20001816M160S	A/G
Q813, Q815	SEMI,CHIP TR/NPN 2SC				2		J522010500210S	A/G
CP807	CN,WIRE 2MM				1		L002800050130S	A/G
LED810	LED,ROUND				1		K500036301130S	A/G
LED811	LED,ROUND				1		K500036301130S	A/G
PCB9	ASSEMBLY P.C.B BOARD PW_SW						7028068794010	A/G
C823	C,CERAMIC AC(SAFETY)	4700 pF	250V	M	1		D00847208H010S	A/G
CN800	CN,WIRE				1		L000251020110S	A/G
SW804	SW,PUSH				1		G000122006060S	A/G
PCB10	ASSEMBLY P.C.B BOARD CNT1						7028068796010	A/G
CN817	CN.WAFER 2.0MM				1		L101100031510S	A/G
CN818	CN.WAFER 2.0MM				1		L101100031510S	A/G
PCB11	ASSEMBLY P.C.B BOARD CNT2						7028068797010	A/G
CN815	CN.WAFER 2.0MM				1		L101100031510S	A/G
CN816	CN.WAFER 2.0MM				1		L101100031510S	A/G
PCB12	ASSEMBLY P.C.B BOARD CNT3						7028068798010	A/G
CN810 ~ CN811	CN.WAFER 2.0MM				2		L101100031810S	A/G
CN813	CN.WAFER 2.0MM				1		L101100030910S	A/G
CN814	CN.WAFER 2.0MM				1		L101100030910S	A/G
PCB13	ASSEMBLY P.C.B BOARD HDMI						7028068801010	A
PCB13	ASSEMBLY P.C.B BOARD HDMI						7028068801020	G
	CAPACITORS							
C1002 ~ C1003	C,ELECT CHIP(GE)	10 uF	16V	M	2		D050100083460S	A/G
C1004, C1007	C,CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	A/G
C1012	C,ELECT CHIP(GE)	470 uF	6.3V	M	1		D050471081200S	A/G
C1013 ~ C1014	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C1016	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1018	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1019	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1020 ~ C1021	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C1022	C,CERAMIC CHIP HIK	0.22 uF	16V	Z	1		D011224593160S	A/G
C1023	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1024 ~ C1025	C,CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	A/G

REF_No.	DESCRIPTION					Q'TY.	PARTS_No.	VER.
C1026	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1028	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1029	C,CERAMIC CHIP T.C	20 pF	50V	J	1		D010200167160S	A/G
C1030	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1031	C,CERAMIC CHIP T.C	20 pF	50V	J	1		D010200167160S	A/G
C1032 ~ C1033	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C1034	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1037 ~ C1039	C,CERAMIC CHIP HIK	1000 pF	50V	K	3		D011102777160S	A/G
C1040	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C1041 ~ C1045	C,CERAMIC CHIP HIK	0.1 uF	50V	K	5		D011104577160S	A/G
C1046	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1047	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C1048	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1049	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1050	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C1051	C,CERAMIC CHIP T.C	20 pF	50V	J	1		D010200167160S	A/G
C1052	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1053	C,CERAMIC CHIP T.C	20 pF	50V	J	1		D010200167160S	A/G
C1054 ~ C1056	C,CERAMIC CHIP HIK	0.1 uF	50V	K	3		D011104577160S	A/G
C1057	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1058	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A
C1059 ~ C1060	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C1061	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1062 ~ C1067	C,CERAMIC CHIP HIK	0.1 uF	50V	K	6		D011104577160S	A/G
C1068	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C1069	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1070	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1071	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1072	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C1073	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1074	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C1075 ~ C1076, C1078	C,CERAMIC CHIP HIK	0.1 uF	50V	K	3		D011104577160S	A/G
C1081	C,ELECT CHIP(GE)	1 uF	50V	M	1		D050010087200S	A/G
C1082	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1083	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C1084 ~ C1085	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C1086	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1087	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1088	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1089 ~ C1090	C,CERAMIC CHIP HIK	1000 pF	50V	K	2		D011102777160S	A/G
C1092	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1093	C,CERAMIC CHIP T.C	10 pF	50V	D	1		D010100117160S	A/G
C1094	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1095	C,CERAMIC CHIP T.C	10 pF	50V	D	1		D010100117160S	A/G
C1096	C,CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A/G
C1097 ~ C1098	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G
C1099	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1100	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1101 ~ C1103	C,ELECT CHIP(GE)	10 uF	16V	M	3		D050100083460S	A/G
C1104	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1105	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1106	C,ELECT CHIP(GE)	10 uF	16V	M	1		D050100083460S	A/G
C1112 ~ C1113	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C1114	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1115	C,CERAMIC CHIP HIK	0.22 uF	16V	Z	1		D011224593160S	A/G
C1116 ~ C1117	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A/G
C1118	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1119	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1120	C,ELECT CHIP(GE)	100 uF	6.3V	M	1		D050101081650S	A/G
C1121	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1122	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1123	C,ELECT CHIP(GE)	220 uF	6.3V	M	1		D050221081200S	A/G
C1124	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1125	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A/G
C1126	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	A/G
C1127 ~ C1128	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A/G

REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
C1129	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1130	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1131	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1132	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1133	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1134	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1135	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1136	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1137	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1138	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1139	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1140	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1141	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1142	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1143	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1144	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1145	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1146	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1147 ~ C1149	C,CERAMIC CHIP T.C	0.01 uF	50V	K	3	D010103777160S	A/G
C1150 ~ C1152	C,CERAMIC CHIP T.C	100 pF	50V	J	3	D010101167160S	A/G
C1153	C,CERAMIC CHIP HIK	1000 pF	50V	K	1	D011102777160S	A/G
C1154	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1155	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1156	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1157	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1158	C,CERAMIC CHIP T.C	10 pF	50V	D	1	D010100117160S	A/G
C1160 ~ C1163	C,CERAMIC CHIP HIK	0.22 uF	16V	Z	4	D011224593160S	A/G
C1164	C,ELECT CHIP(GE)	470 uF	6.3V	M	1	D050471081200S	A/G
C1165 ~ C1167	C,CERAMIC CHIP HIK	0.22 uF	16V	Z	3	D011224593160S	A/G
C1168	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1169	C,ELECT CHIP(GE)	100 uF	6.3V	M	1	D050101081650S	A/G
C1170 ~ C1171	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C1172	C,ELECT CHIP(GE)	220 uF	6.3V	M	1	D050221081200S	A/G
C1173 ~ C1174	C,CERAMIC CHIP T.C	0.01 uF	50V	K	2	D010103777160S	A/G
C1175 ~ C1176	C,ELECT CHIP(GE)	220 uF	6.3V	M	2	D050221081200S	A/G
C1177	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1178	C,ELECT CHIP(GE)	220 uF	6.3V	M	1	D050221081200S	A/G
C1179	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1180	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1181	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1182 ~ C1183	C,CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577160S	A/G
C1184	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1185	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1186	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1187	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1188	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1189	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1190	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1191	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1192	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1193	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1194	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1195	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1196	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1197	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1198	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1199	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1200	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1201	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1202 ~ C1204	C,CERAMIC CHIP T.C	0.01 uF	50V	K	3	D010103777160S	A/G
C1205 ~ C1207	C,CERAMIC CHIP T.C	100 pF	50V	J	3	D010101167160S	A/G
C1208	C,CERAMIC CHIP HIK	1000 pF	50V	K	1	D011102777160S	A/G
C1209	C,CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S	A/G
C1210	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G
C1211	C,ELECT CHIP(GE)	10 uF	16V	M	1	D050100083460S	A/G
C1212	C,CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S	A/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
C1213	C,CERAMIC CHIP T.C 10 pF 50V D	1	D010100117160S	A/G
C1215 ~ C1218	C,CERAMIC CHIP HIK 0.22 uF 16V Z	4	D011224593160S	A/G
C1219	C,ELECT CHIP(GE) 470 uF 6.3V M	1	D050471081200S	A/G
C1220 ~ C1222	C,CERAMIC CHIP HIK 0.22 uF 16V Z	3	D011224593160S	A/G
C1223	C,CERAMIC CHIP T.C 0.01 uF 50V K	1	D010103777160S	A/G
C1224 ~ C1225	C,ELECT CHIP(GE) 100 uF 6.3V M	2	D050101081650S	A/G
C1226	C,CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	A/G
J1005 ~ J1006	C,CERAMIC CHIP HIK 0.1 uF 50V K	2	D011104777200S	A/G
J1007	C,CERAMIC CHIP T.C 1000 pF 50V J	1	D010102167200S	A/G
J1008	C,CERAMIC CHIP T.C 100 pF 50V J	1	D010101167200S	A/G
	COILS			
L1000 ~ L1002, L1004, L1019 ~ L1030	COIL,BEAD	16	D340201202210S	A/G
L1031	COIL,BEAD	1	D340100562410S	A/G
L1032 ~ L1033	COIL,BEAD	2	D340201202210S	A/G
L1034 ~ L1035	COIL,BEAD	2	D340160811210S	A/G
R1045	COIL,BEAD	1	D340160811210S	A/G
R1050	COIL,BEAD	1	D340201202210S	A/G
R1291, R1373	COIL,BEAD	2	D340160811210S	A/G
	CONNECTORS			
CN1000	CN.FPC 1.0MM	1	L130100151140S	A/G
CP1000	CN.WAFER 2.0MM	1	L101100040910S	A/G
CP1001 ~ CP1002	CN.WAFER 2.0MM	2	L101100041510S	A/G
CP1003	CN.WAFER 2.0MM	1	L101100041810S	A/G
CP1004	CN.FPC 1.0MM	1	L130100151040S	A/G
JACK1000 ~ JACK1002	CN.WAFER	3	L109100190050S	A/G
JACK1003	CN.FPC 0.5MM	1	L136050040190S	A
JACK1004	CN.WAFER	1	L109100190050S	A/G
	DIODES			
D1000 ~ D1038	D,ESD CHIP	39	K067020500010S	A/G
D1039 ~ D1051	D,ESD CHIP	13	K067020500010S	A
D1053 ~ D1065	D,ESD CHIP	13	K067020500010S	A/G
D1066 ~ D1069	D,SWITCHING CHIP	4	K005041480030S	A/G
ZD1000	D,ZENER CHIP	1	K06605R14P400S	A/G
ZD1001	D,ZENER CHIP	1	K06602R44P400S	A/G
	INTERGRATED CIRCUITS			
IC1000	IC,ANALOG	1	J080458800010S	A/G
IC1001	IC,LOGIC	1	J040923300030S	A/G
IC1002	IC,LINEAR-REGULATOR	1	J126111712040S	A/G
IC1003	IC,LINEAR-REGULATOR	1	J126111710011S	A/G
IC1004	IC,LOGIC	1	J040913400030S	A/G
IC1005	IC,CPU MICRO PROCESS	1	J020303020030S	A/G
IC1006	IC,LOGIC	1	J040742570030S	A/G
IC1007	IC,ANALOG	1	J080320788010S	A/G
IC1008	IC,MEMORY-RAM	1	J001421640040S	A/G
IC1009	IC,MEMORY FLASH	1	J005291607010S	A/G
IC1010	IC,ANALOG	1	J080320787010S	A/G
IC1011	IC,MEMORY-RAM	1	J001421640040S	A/G
IC1012	IC,MEMORY FLASH	1	J005291607010S	A/G
IC1013 ~ IC1014	IC,LOGIC	2	J040742440180S	A/G
REG1000	IC,LINEAR-REGULATOR	1	J126111700041S	A/G
REG1001 ~ REG1004	IC,LINEAR-REGULATOR	4	J126111712040S	A/G
	RESISTORS			
C1027	R,CHIP THICK 750 ohm 1/16W J	1	C20007516M160S	A/G
L1003	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	A/G
L1007 ~ L1018	R,CHIP THICK 0 ohm 1/16W J	12	C20000006M101S	A/G
L1036	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	A/G
R1000 ~ R1012	R,CHIP THICK 0 ohm 1/16W J	13	C20000006M101S	A/G
R1013	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	A/G
R1014 ~ R1015	R,CHIP THICK 150 ohm 1/16W J	2	C20001516M101S	A/G
R1016 ~ R1023	R,CHIP THICK 100 ohm 1/16W J	8	C20001016M101S	A/G
R1024	R,CHIP THICK 12 kohm 1/16W F	1	C20001234M100S	A/G
R1025	R,CHIP THICK 10 kohm 1/16W J	1	C20001036M111S	A/G
R1026	R,CHIP THICK 47 ohm 1/16W J	1	C20004706M101S	A/G
R1027 ~ R1028	R,CHIP THICK 4.7 kohm 1/16W J	2	C20004726M101S	A/G
R1029 ~ R1030	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M111S	A/G

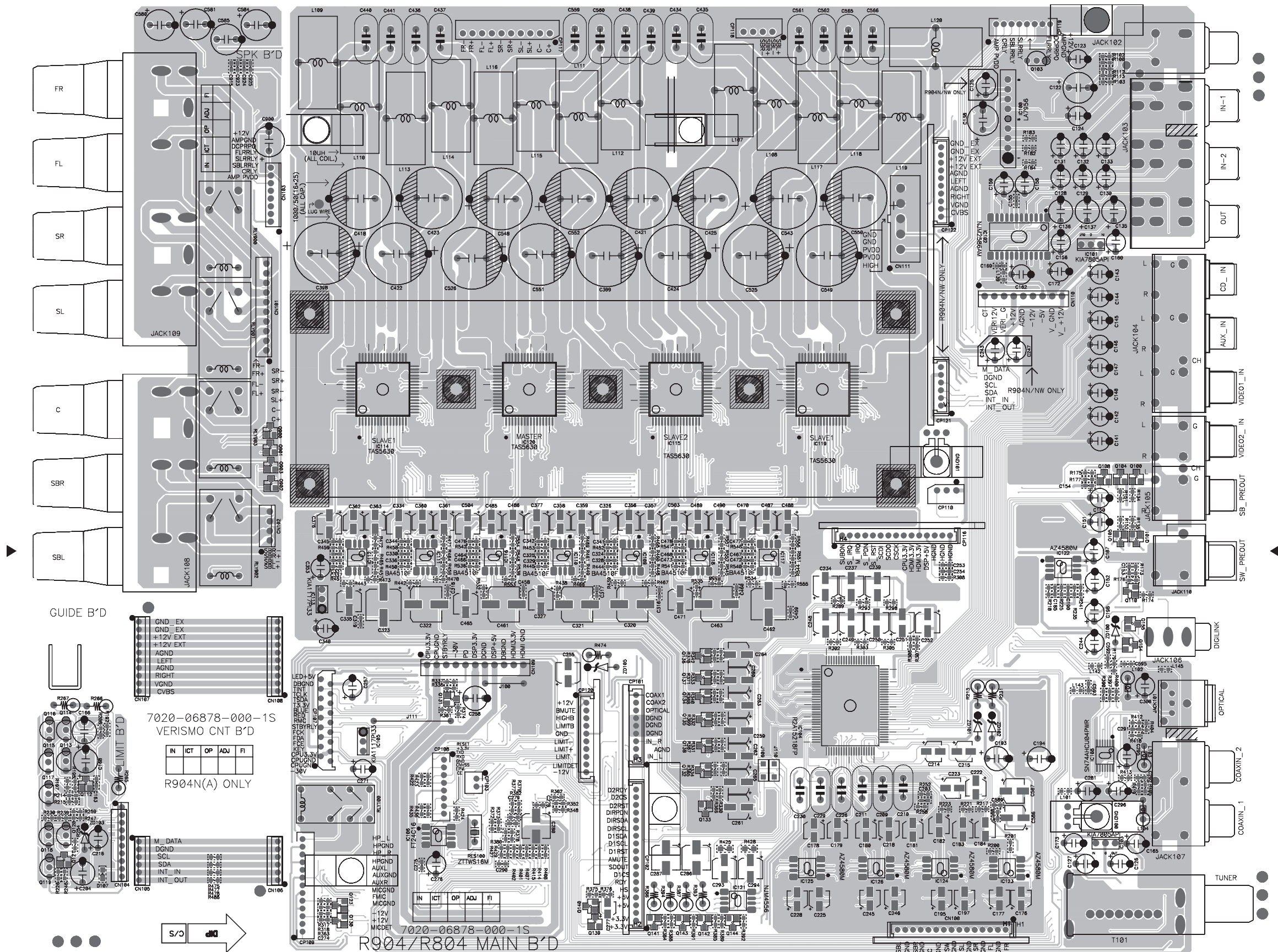
REF_No.	DESCRIPTION				Q'TY.	PARTS_No.	VER.
R1031	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M101S	A/G
R1032	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M111S	A/G
R1033	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1034	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M101S	A/G
R1035 ~ R1036	R,CHIP THICK	33 ohm	1/16W	J	2	C20003306M101S	A/G
R1037	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1038	R,CHIP THICK	220 ohm	1/16W	J	1	C20002216M101S	A/G
R1039 ~ R1044	R,CHIP THICK	33 ohm	1/16W	J	6	C20003306M101S	A/G
R1046	R,CHIP THICK	1000 kohm	1/16W	J	1	C20001056M101S	A/G
R1047	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1048	R,CHIP THICK	750 ohm	1/16W	J	1	C20007516M101S	A/G
R1049	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S	A/G
R1052	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M101S	A/G
R1054 ~ R1061	R,CHIP THICK	0 ohm	1/16W	J	8	C20000006M160S	A/G
R1069 ~ R1071	R,CHIP THICK	0 ohm	1/16W	J	3	C20000006M101S	A/G
R1072 ~ R1077	R,CHIP THICK	47 kohm	1/16W	J	6	C20004736M101S	A/G
R1081 ~ R1112	R,CHIP THICK	5.6 ohm	1/16W	J	32	C2005R606M101S	A/G
R1113 ~ R1114	R,CHIP THICK	47 ohm	1/16W	J	2	C20004706M101S	A/G
R1115	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M101S	A/G
R1116	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1117	R,CHIP THICK	1000 kohm	1/16W	J	1	C20001056M101S	A/G
R1118 ~ R1122, R1124	R,CHIP THICK	47 ohm	1/16W	J	6	C20004706M101S	A/G
R1125 ~ R1126	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M101S	A/G
R1128	R,CHIP THICK	10 ohm	1/16W	J	1	C20001006M101S	A/G
R1129	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M101S	A/G
R1130 ~ R1134	R,CHIP THICK	10 ohm	1/16W	J	5	C20001006M101S	A/G
R1135	R,CHIP THICK	2.7 kohm	1/16W	J	1	C20002726M101S	A/G
R1137 ~ R1138, R1140	R,CHIP THICK	10 ohm	1/16W	J	3	C20001006M101S	A/G
R1141	R,CHIP THICK	470 ohm	1/16W	J	1	C20004716M101S	A/G
R1142	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M101S	A/G
R1143, R1146 ~ R1148	R,CHIP THICK	10 ohm	1/16W	J	4	C20001006M101S	A/G
R1149 ~ R1150	R,CHIP THICK	47 kohm	1/16W	J	2	C20004736M101S	A
R1151	R,CHIP THICK	10 ohm	1/16W	J	1	C20001006M101S	A/G
R1152 ~ R1154	R,CHIP THICK	4.7 kohm	1/16W	J	3	C20004726M101S	A/G
R1155	R,CHIP THICK	10 ohm	1/16W	J	1	C20001006M101S	A/G
R1156	R,CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M101S	A/G
R1157	R,CHIP THICK	10 ohm	1/16W	J	1	C20001006M101S	A/G
R1158	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A
R1159 ~ R1164	R,CHIP THICK	10 ohm	1/16W	J	6	C20001006M101S	A/G
R1165	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M101S	A/G
R1166 ~ R1192	R,CHIP THICK	10 ohm	1/16W	J	27	C20001006M101S	A/G
R1202 ~ R1203, R1206	R,CHIP THICK	3.9 kohm	1/16W	J	3	C20003926M101S	A/G
R1207 ~ R1210	R,CHIP THICK	33 ohm	1/16W	J	4	C20003306M101S	A/G
R1211 ~ R1213	R,CHIP THICK	4.7 kohm	1/16W	J	3	C20004726M101S	A/G
R1214	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1215	R,CHIP THICK	100 ohm	1/16W	J	1	C20001016M101S	A/G
R1216 ~ R1217	R,CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M101S	A/G
R1218	R,CHIP THICK	1 kohm	1/16W	J	1	C20001026M101S	A/G
R1219	R,CHIP THICK	1.5 kohm	1/16W	J	1	C20001526M101S	A/G
R1220	R,CHIP THICK	1.3 kohm	1/16W	F	1	C20001324M101S	A/G
R1221	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M101S	A/G
R1222 ~ R1223	R,CHIP THICK	0 ohm	1/16W	J	2	C20000006M101S	A/G
R1225	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M111S	A/G
R1226	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1227	R,CHIP THICK	1.8 kohm	1/16W	J	1	C20001826M101S	A/G
R1228	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1229	R,CHIP THICK	1.8 kohm	1/16W	J	1	C20001826M101S	A/G
R1230	R,CHIP THICK	0 ohm	1/16W	J	1	C20000006M101S	A/G
R1235 ~ R1236	R,CHIP THICK	33 ohm	1/16W	J	2	C20003306M101S	A/G
R1237	R,CHIP THICK	47 kohm	1/16W	J	1	C20004736M101S	A/G
R1238	R,CHIP THICK	33 ohm	1/16W	J	1	C20003306M101S	A/G
R1239	R,CHIP THICK	10 kohm	1/16W	J	1	C20001036M111S	A/G
R1240 ~ R1247	R,CHIP THICK	0 ohm	1/16W	J	8	C20000006M101S	A/G
R1248 ~ R1251	R,CHIP THICK	10 kohm	1/16W	J	4	C20001036M111S	A/G
R1252 ~ R1254	R,CHIP THICK	100 ohm	1/16W	J	3	C20001016M160S	A/G
R1262 ~ R1263	R,CHIP THICK	680 ohm	1/16W	J	2	C20006816M101S	A/G

REF_No.	DESCRIPTION	Q'TY.	PARTS_No.	VER.
R1266 ~ R1270	R,CHIP THICK 1 kohm 1/16W J	5	C20001026M101S	A/G
R1272 ~ R1279	R,CHIP THICK 33 ohm 1/16W J	8	C20003306M101S	A/G
R1281 ~ R1284	R,CHIP THICK 0 ohm 1/16W J	4	C20000006M101S	A/G
R1285 ~ R1286	R,CHIP THICK 33 ohm 1/16W J	2	C20003306M101S	A/G
R1287 ~ R1288	R,CHIP THICK 1 kohm 1/16W J	2	C20001026M101S	A/G
R1289 ~ R1290, R1292 ~ R1295, R1297 ~ R1302	R,CHIP THICK 33 ohm 1/16W J	12	C20003306M101S	A/G
R1303	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1304 ~ R1308	R,CHIP THICK 33 ohm 1/16W J	5	C20003306M101S	A/G
R1309	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1310 ~ R1337	R,CHIP THICK 33 ohm 1/16W J	28	C20003306M101S	A/G
R1338 ~ R1339	R,CHIP THICK 10 kohm 1/16W J	2	C20001036M111S	A/G
R1340 ~ R1344	R,CHIP THICK 33 ohm 1/16W J	5	C20003306M101S	A/G
R1348	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1351 ~ R1355	R,CHIP THICK 1 kohm 1/16W J	5	C20001026M101S	A/G
R1357 ~ R1362	R,CHIP THICK 33 ohm 1/16W J	6	C20003306M101S	A/G
R1363 ~ R1366	R,CHIP THICK 0 ohm 1/16W J	4	C20000006M101S	A/G
R1367 ~ R1368	R,CHIP THICK 33 ohm 1/16W J	2	C20003306M101S	A/G
R1369 ~ R1370	R,CHIP THICK 1 kohm 1/16W J	2	C20001026M101S	A/G
R1371 ~ R1372, R1374 ~ R1377, R1379 ~ R1384	R,CHIP THICK 33 ohm 1/16W J	12	C20003306M101S	A/G
R1385	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1386 ~ R1390	R,CHIP THICK 33 ohm 1/16W J	5	C20003306M101S	A/G
R1391	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1392 ~ R1420	R,CHIP THICK 33 ohm 1/16W J	29	C20003306M101S	A/G
R1421	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1422 ~ R1426	R,CHIP THICK 33 ohm 1/16W J	5	C20003306M101S	A/G
R1430	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1431 ~ R1433	R,CHIP THICK 10 kohm 1/16W J	3	C20001036M111S	A/G
R1434, R1436 ~ R1438	R,CHIP THICK 0 ohm 1/16W J	4	C20000006M101S	A/G
R1439	R,CHIP THICK 4.7 kohm 1/16W J	1	C20004726M101S	A/G
R1440	R,CHIP THICK 0 ohm 1/16W J	1	C20000006M101S	A/G
R1442 ~ R1444	R,CHIP THICK 4.7 kohm 1/16W J	3	C20004726M101S	A/G
TRANSISTORS				
Q1010	SEMI,CHIP TR/NPN 2SC	1	J522010200210S	A/G
Q1012	SEMI,TR/GE PNP 2SA	1	J500124200010S	A/G
Q1013	SEMI,CHIP TR/NPN 2SC	1	J522104S00210S	A/G
MISCELLANEOUS				
X1000	CRYSTAL CHIP	1	E80527R000010S	A/G
X1001	CRYSTAL CHIP	1	E80516R000010S	A/G
XTAL1000	CRYSTAL CHIP	1	E80524R576020S	A/G
	P.C.B	1	7020068800001S	A/G

PRINTED CIRCUIT BOARDS_1

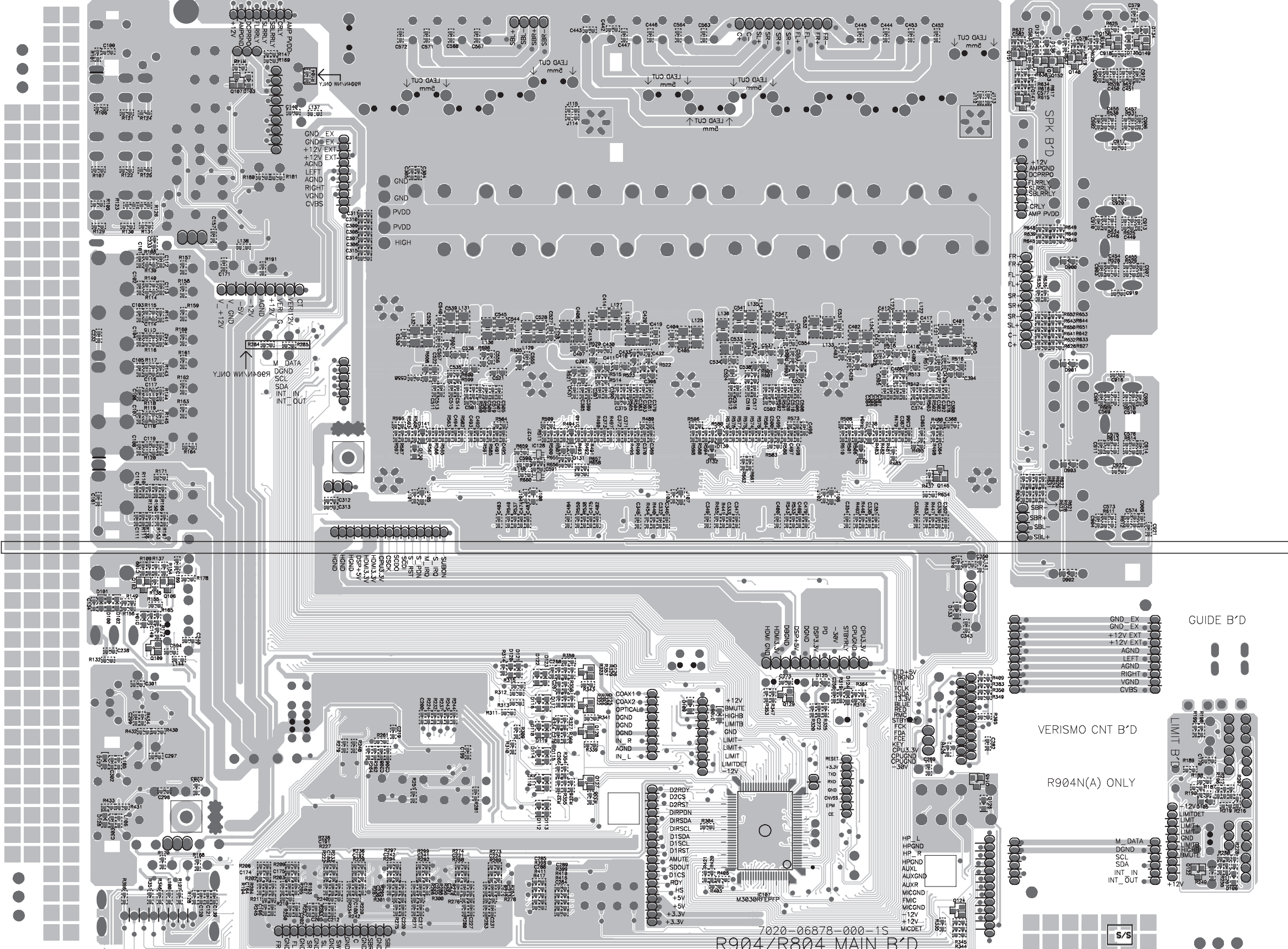
MAIN-TOP

Model : R-904/R-904N

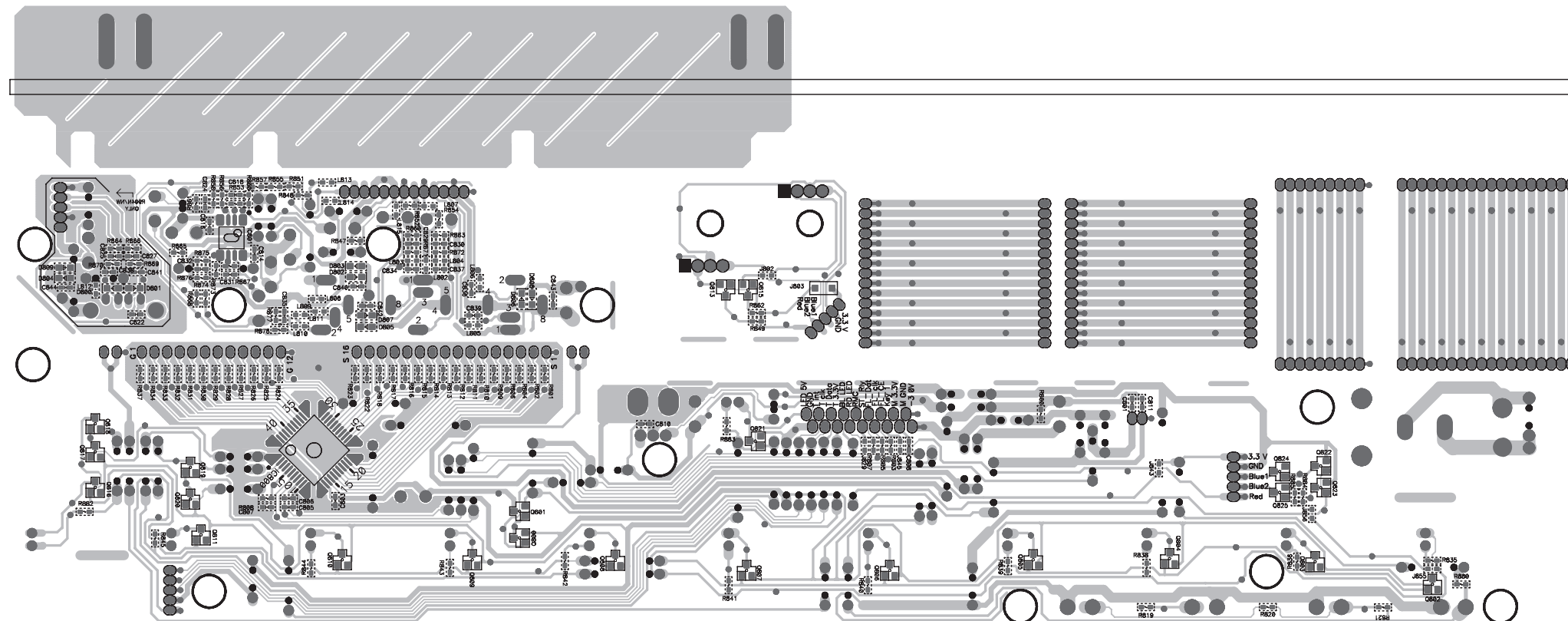


MAIN-BOTTOM

Model : R-904/R-904N



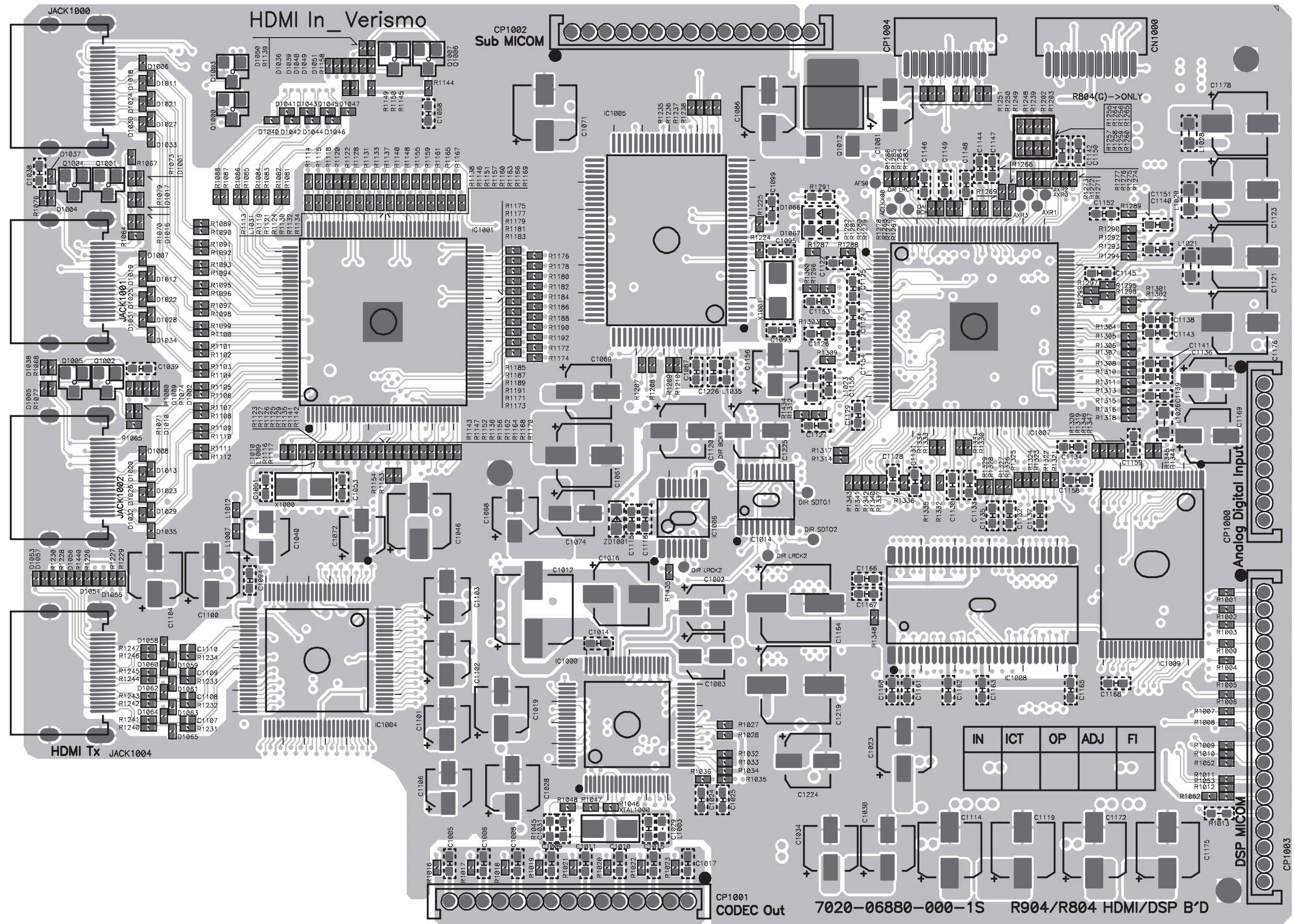
Model : R-904/R-904N



PRINTED CIRCUIT BOARDS_5

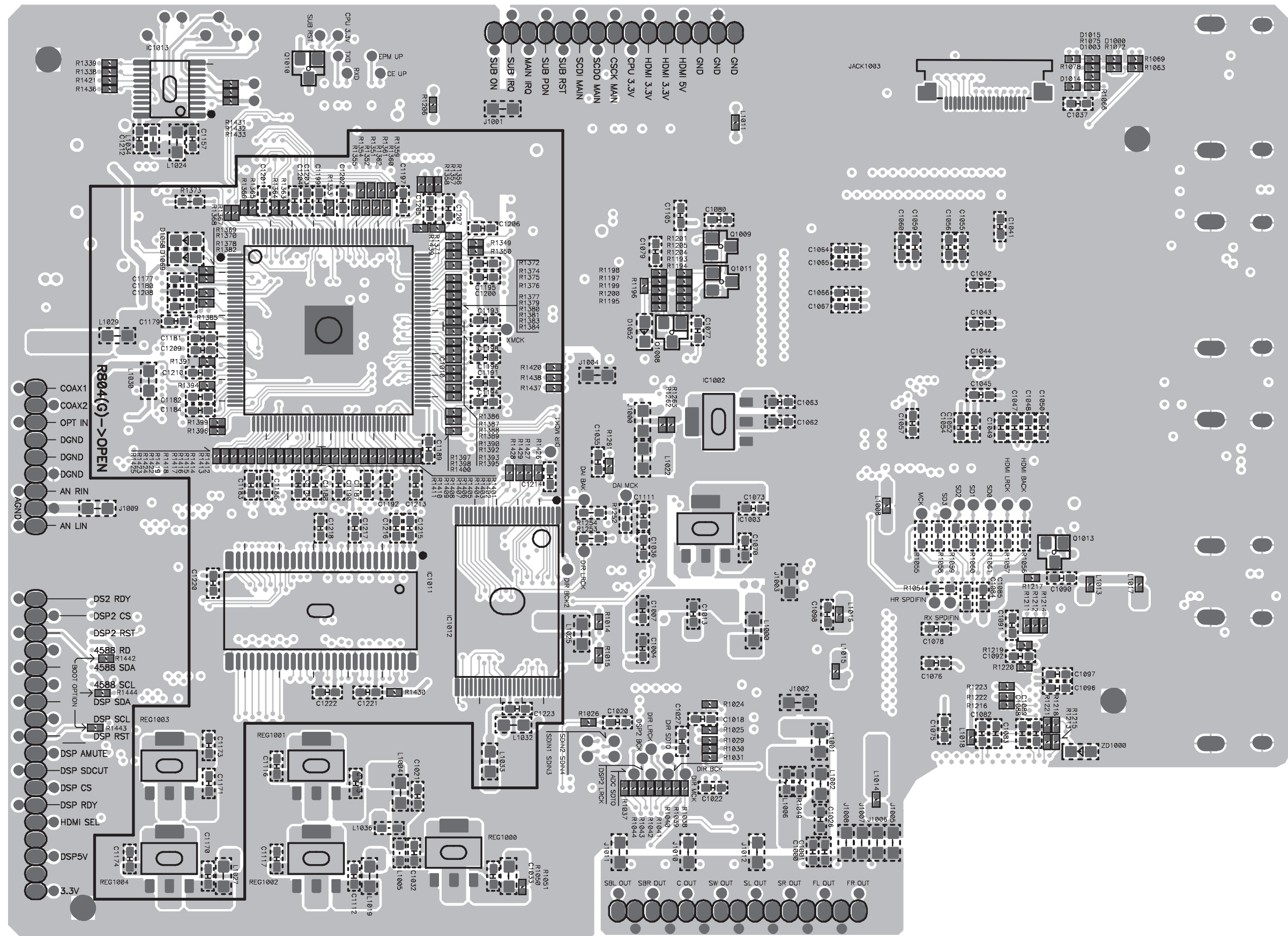
DSP_TOP

Model : R-904/R-904N



PRINTED CIRCUIT BOARDS_6
DSP_BOTTOM

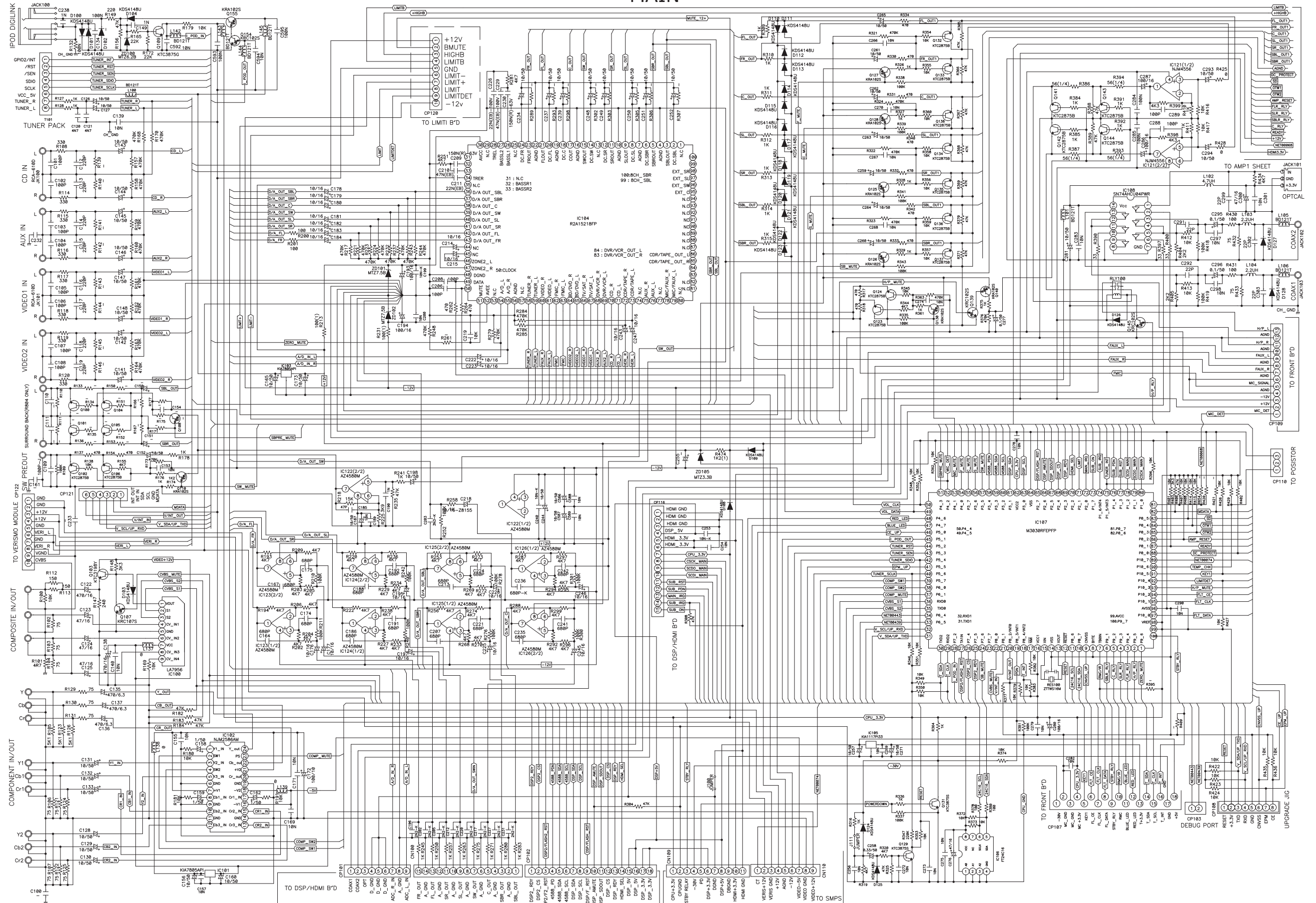
Model : R-904/R-904N



SCHEMATIC DIAGRAMS_1

MAIN

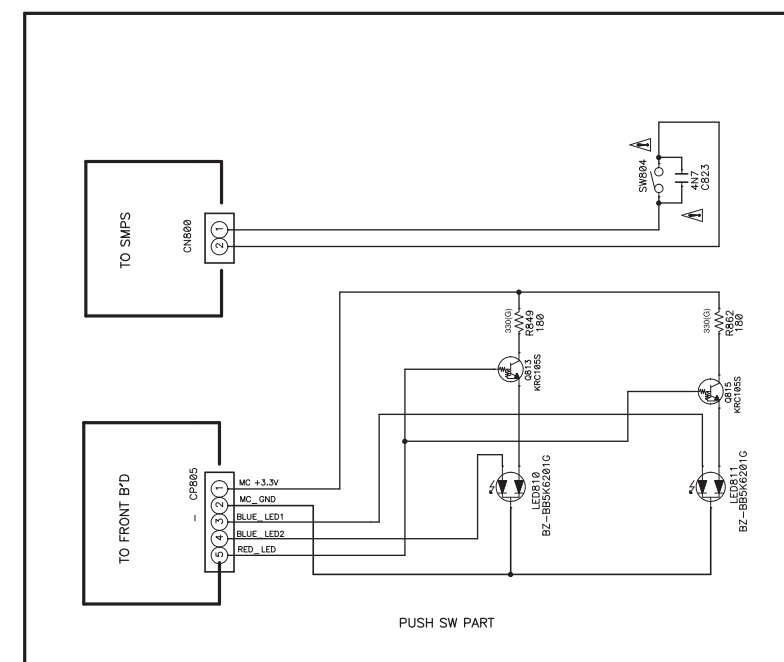
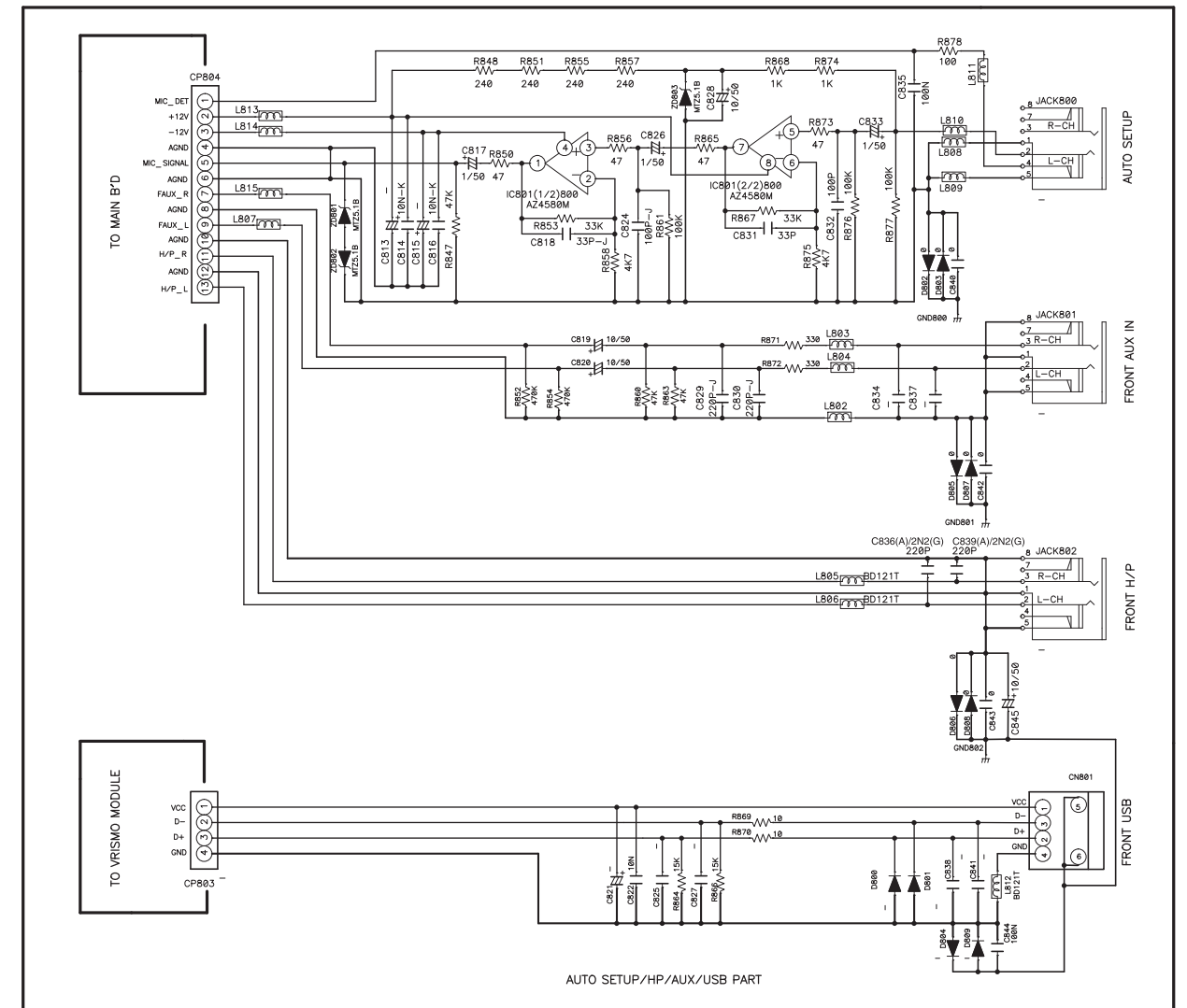
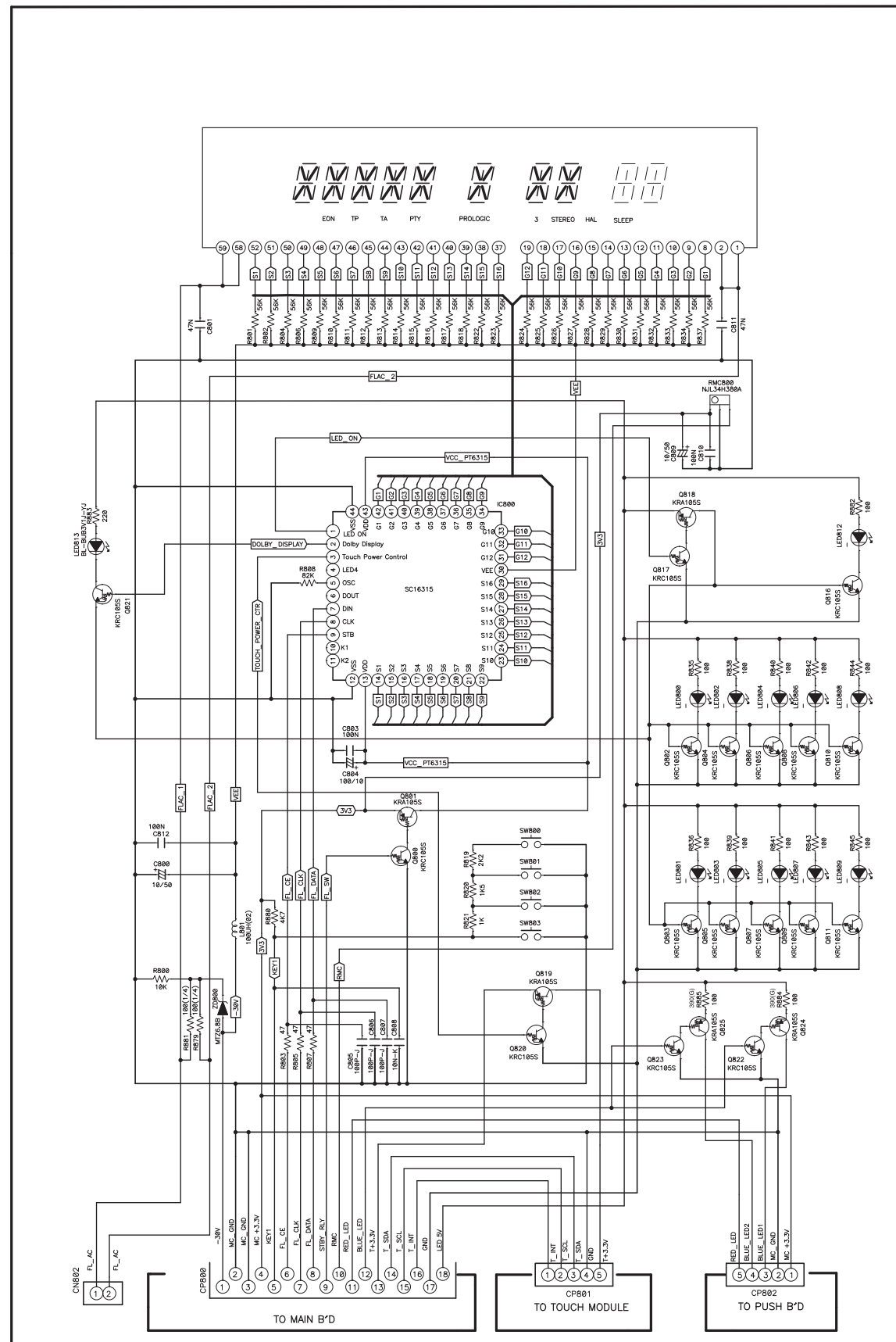
Model : R-904/R-904N



SCHEMATIC DIAGRAMS_2

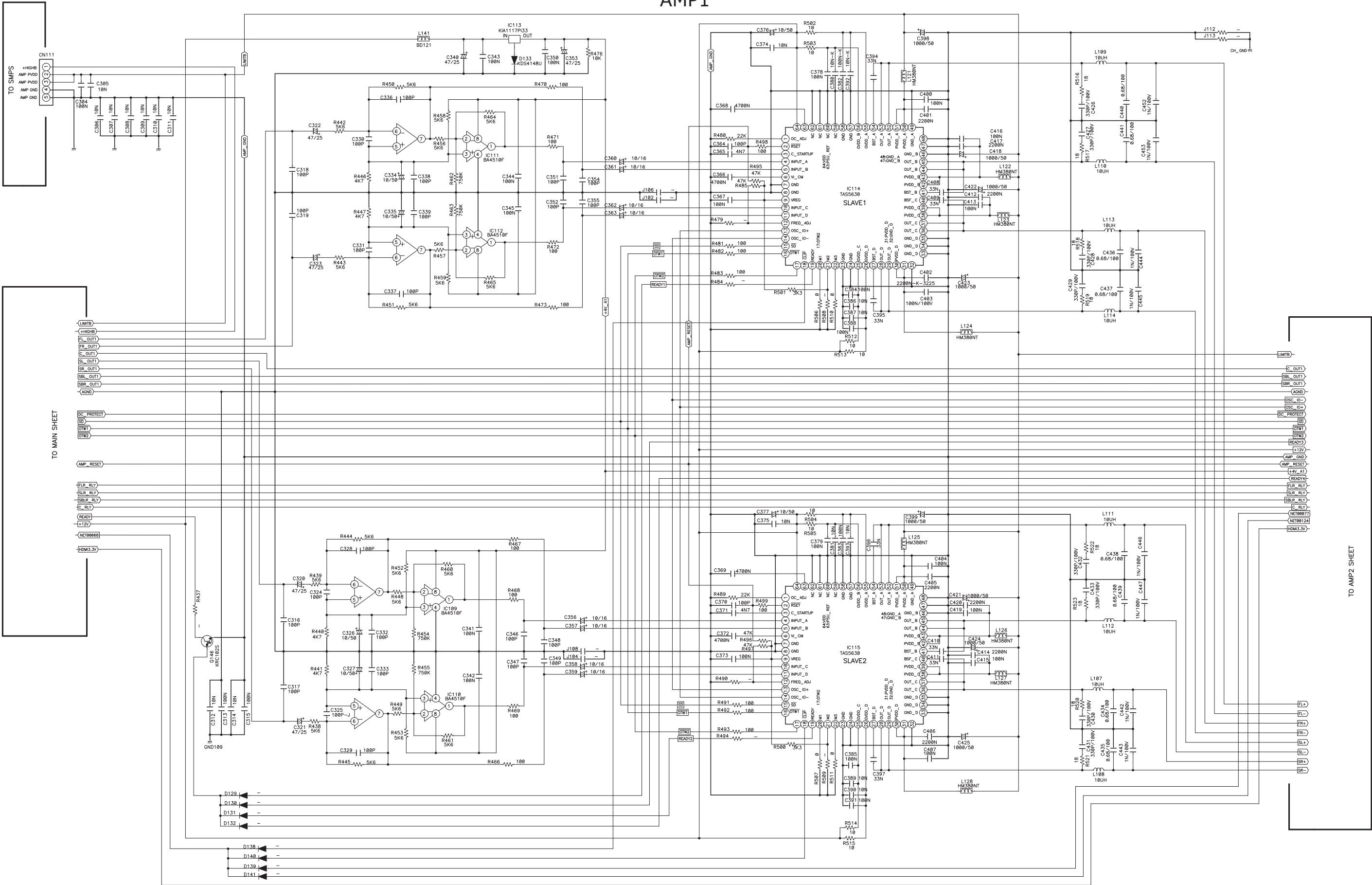
FRONT

Model : R-904/R-904N



SCHEMATIC DIAGRAMS_3
AMP1

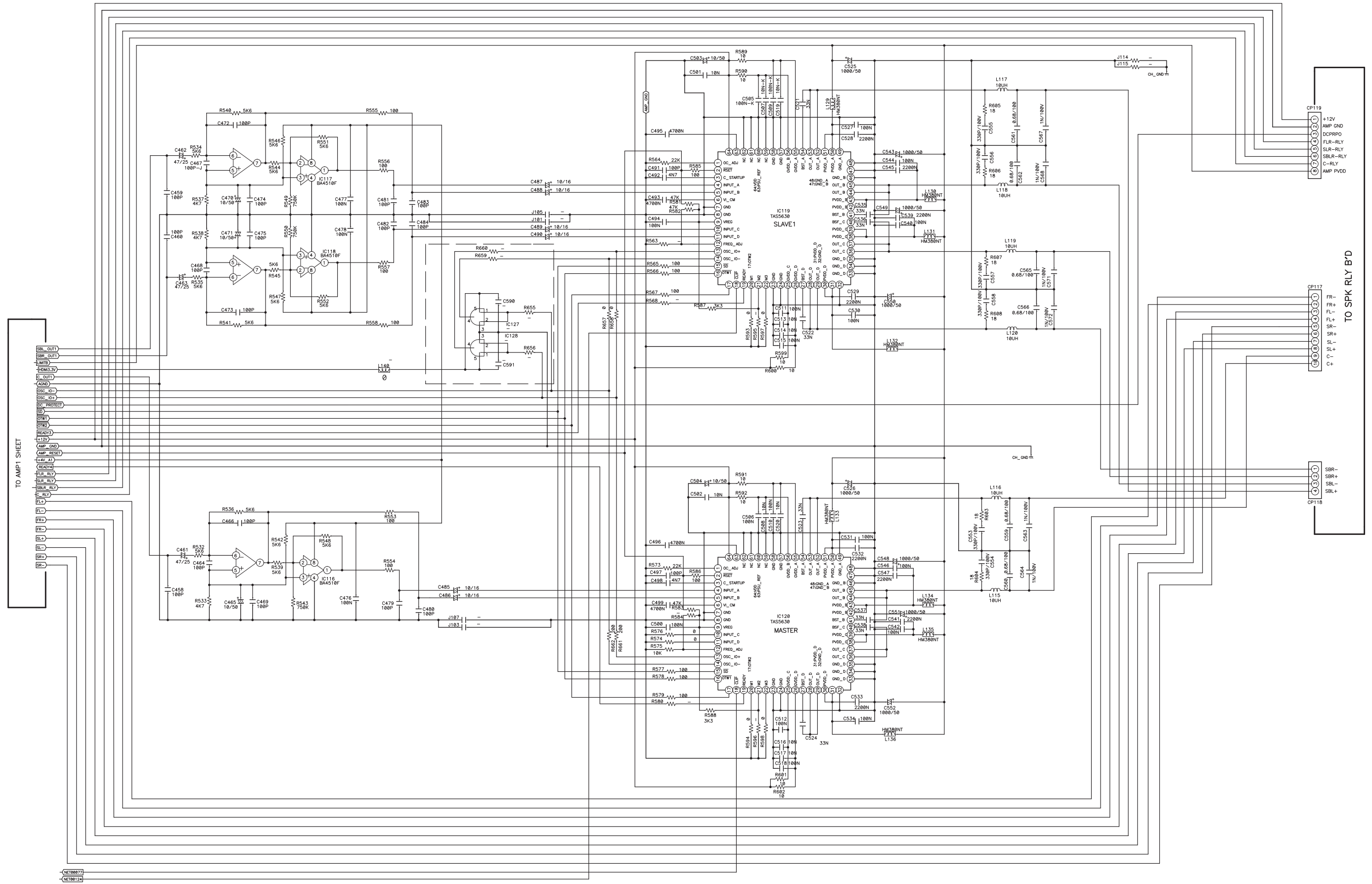
Model : R-904/R-904N



SCHEMATIC DIAGRAMS_4

AMP2

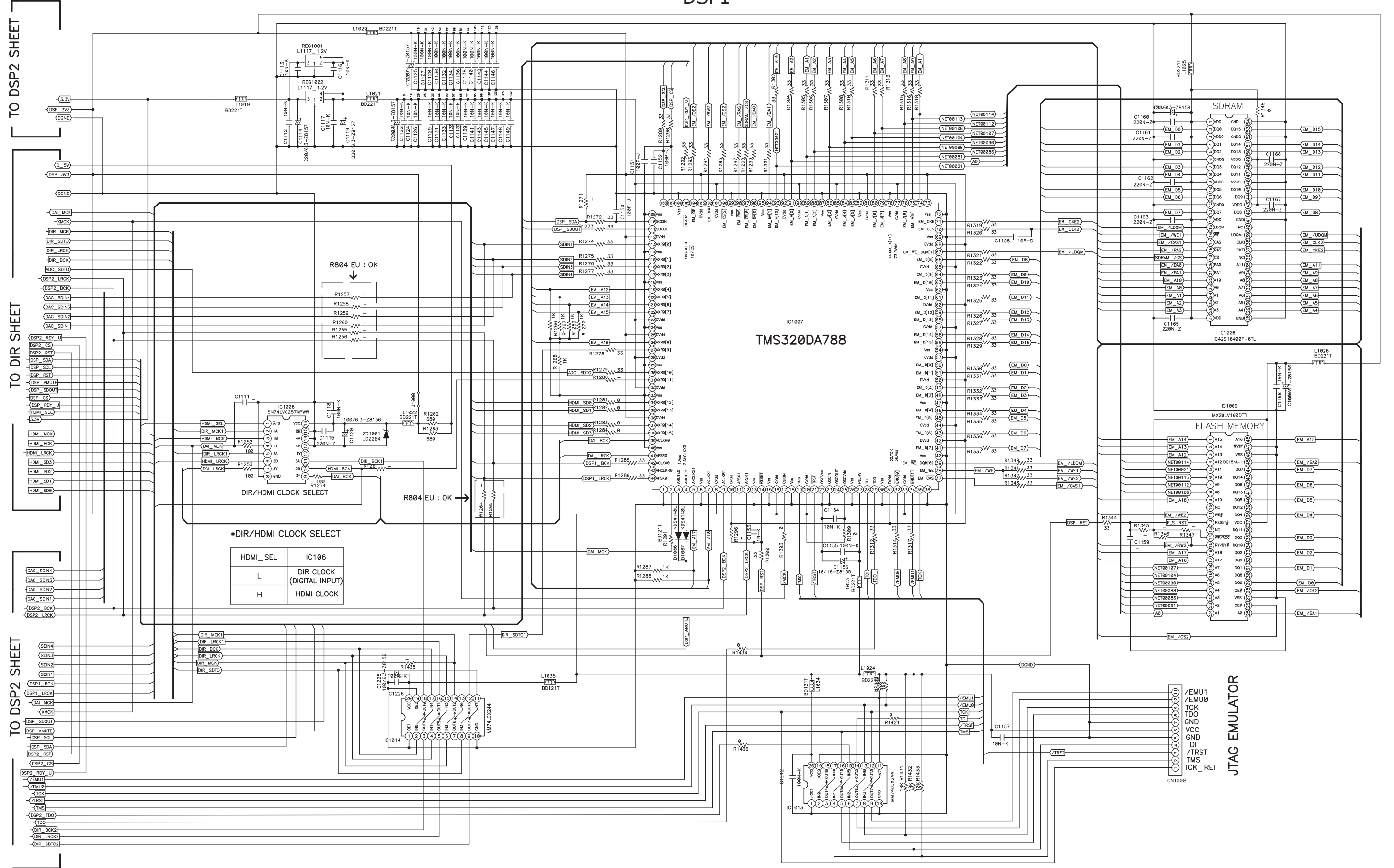
Model : R-904/R-904N



SCHEMATIC DIAGRAMS_5

DSP1

Model : R-904/R-904N



DSP2

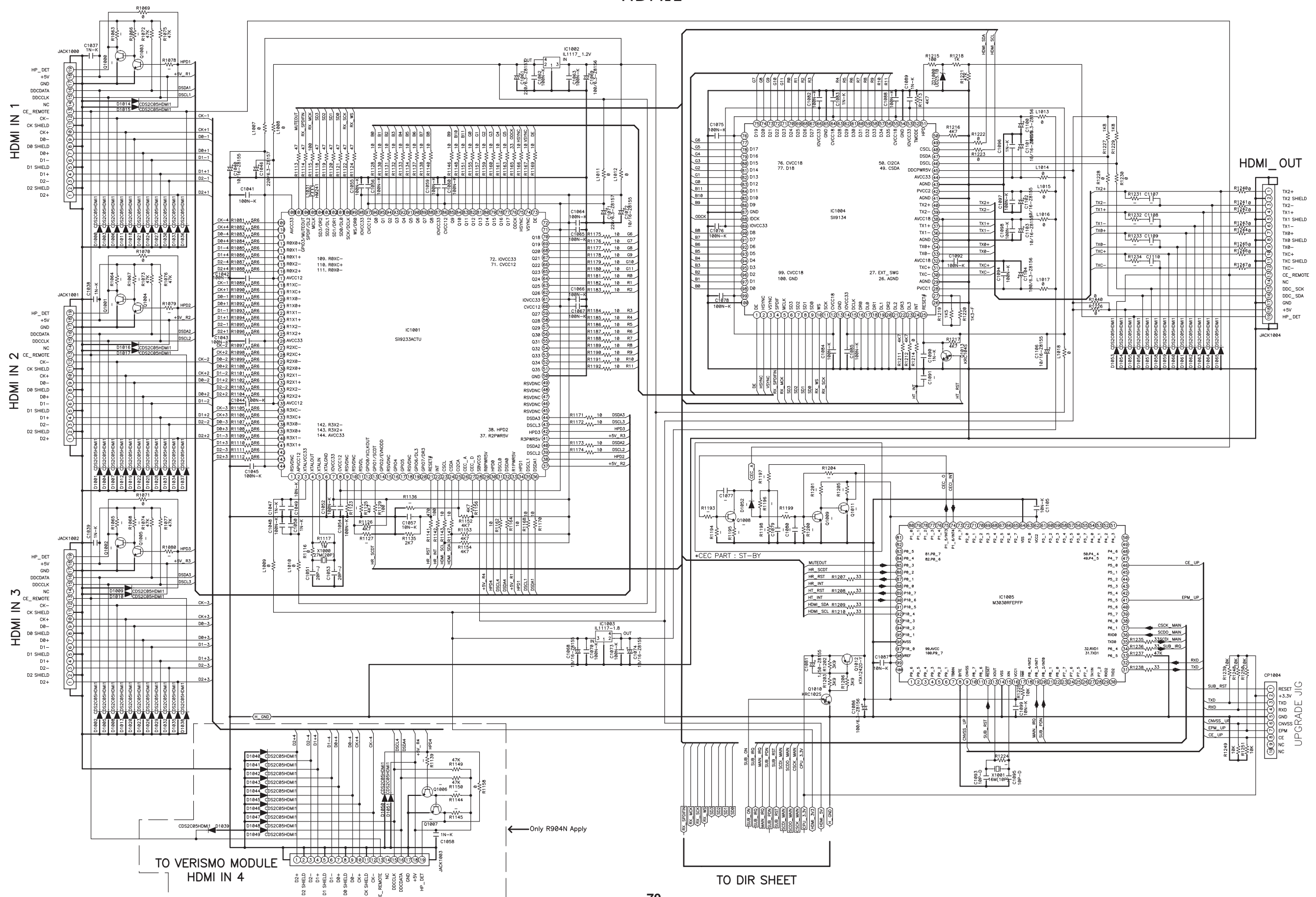
Model : R-904/R-904N



SCHEMATIC DIAGRAMS_7

HDMI1

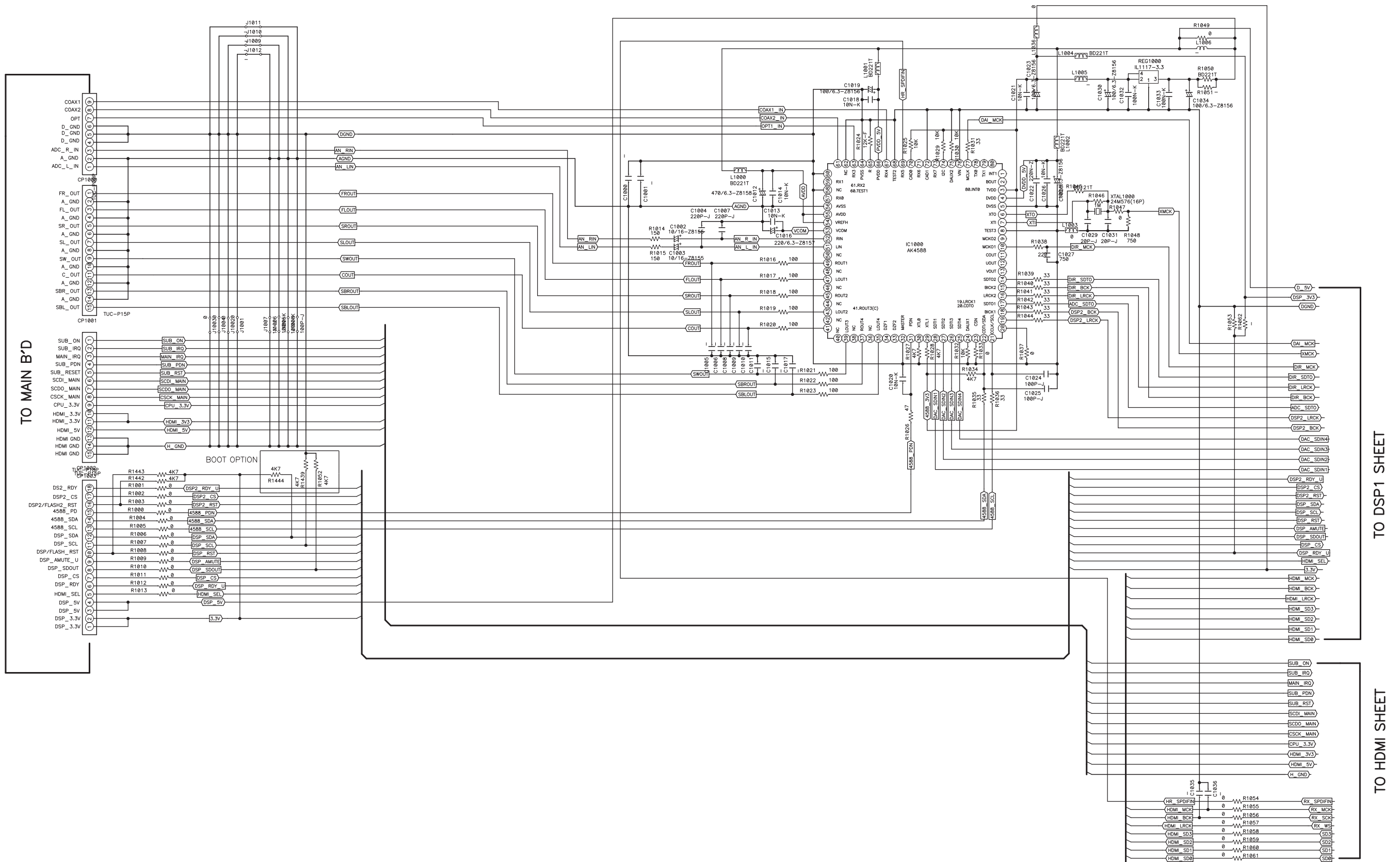
Model : R-904/R-904N



SCHEMATIC DIAGRAMS_8

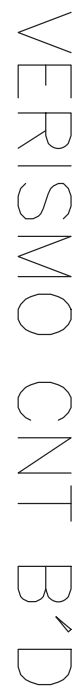
HDMI2

Model : R-904/R-904N



VERISMO / LIMIT

Model : R-904/R-904N



SCHEMATIC DIAGRAMS_10
SPEAKER

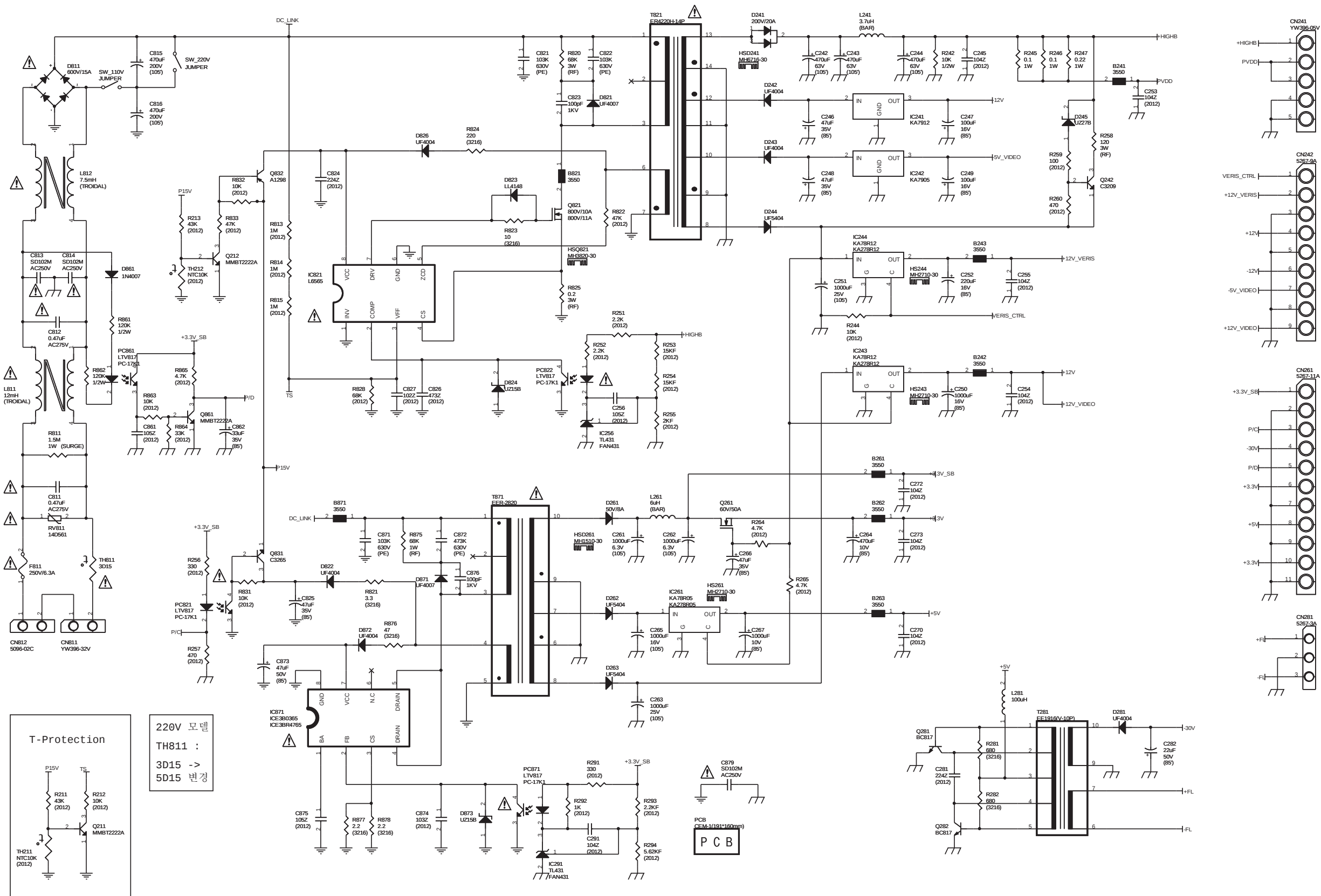
Model : R-904/R-904N



SCHEMATIC DIAGRAMS_11

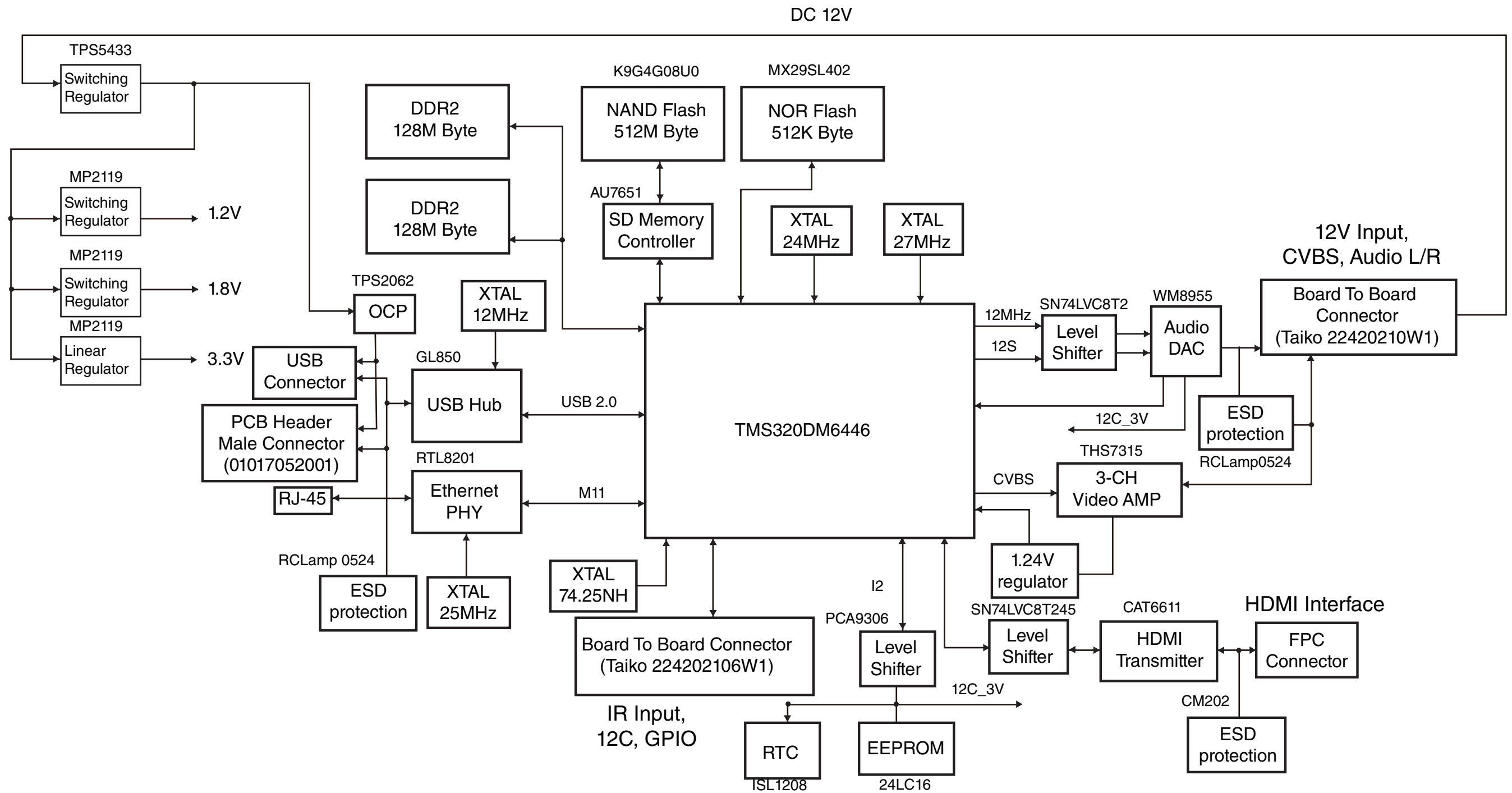
SMPS

Model : R-904/R-904N



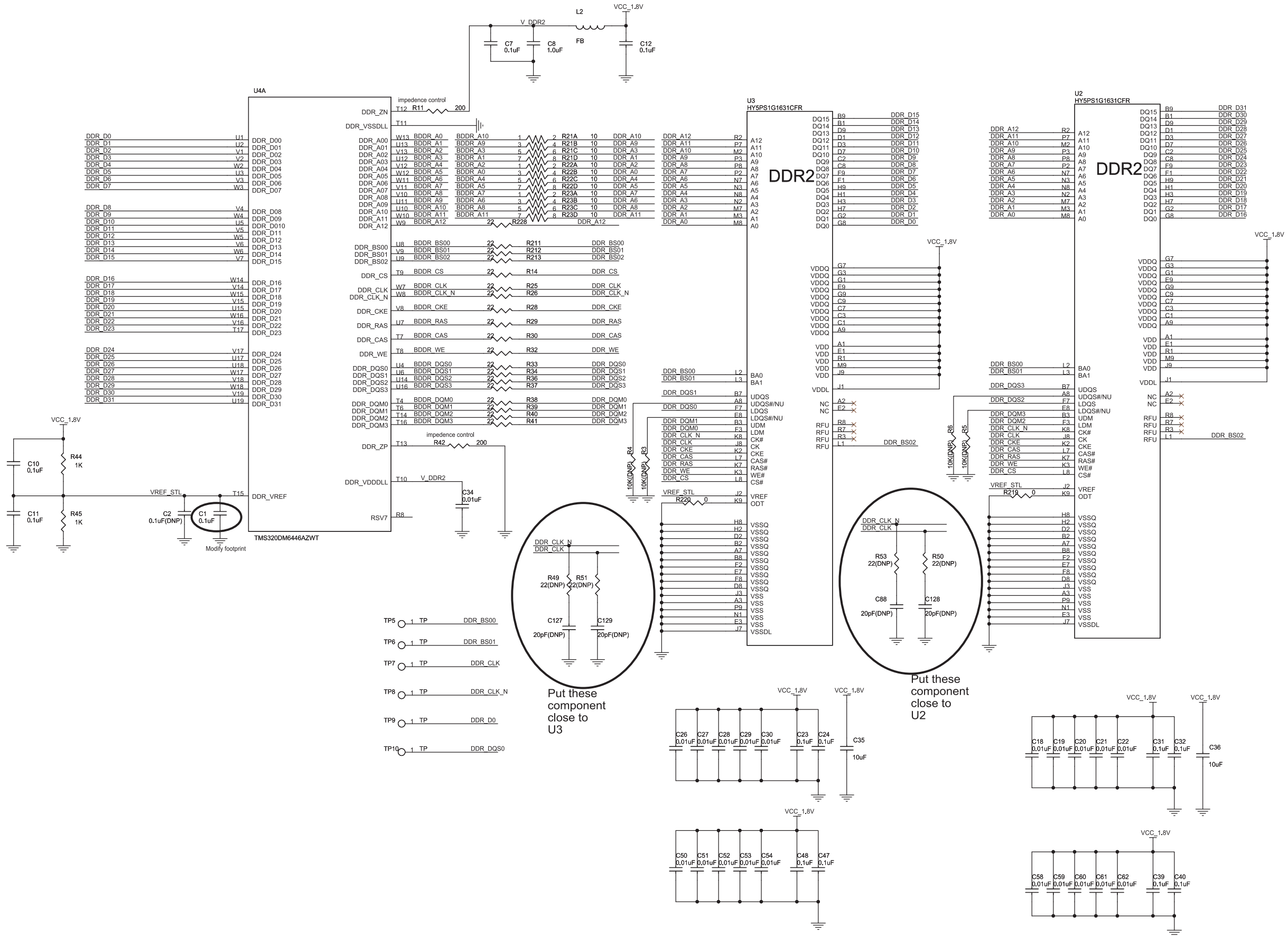
VERISMO MODULE BLOCK DIAGRAM

Model : R-904N



VERISMO MODULE SCHEMATIC_1

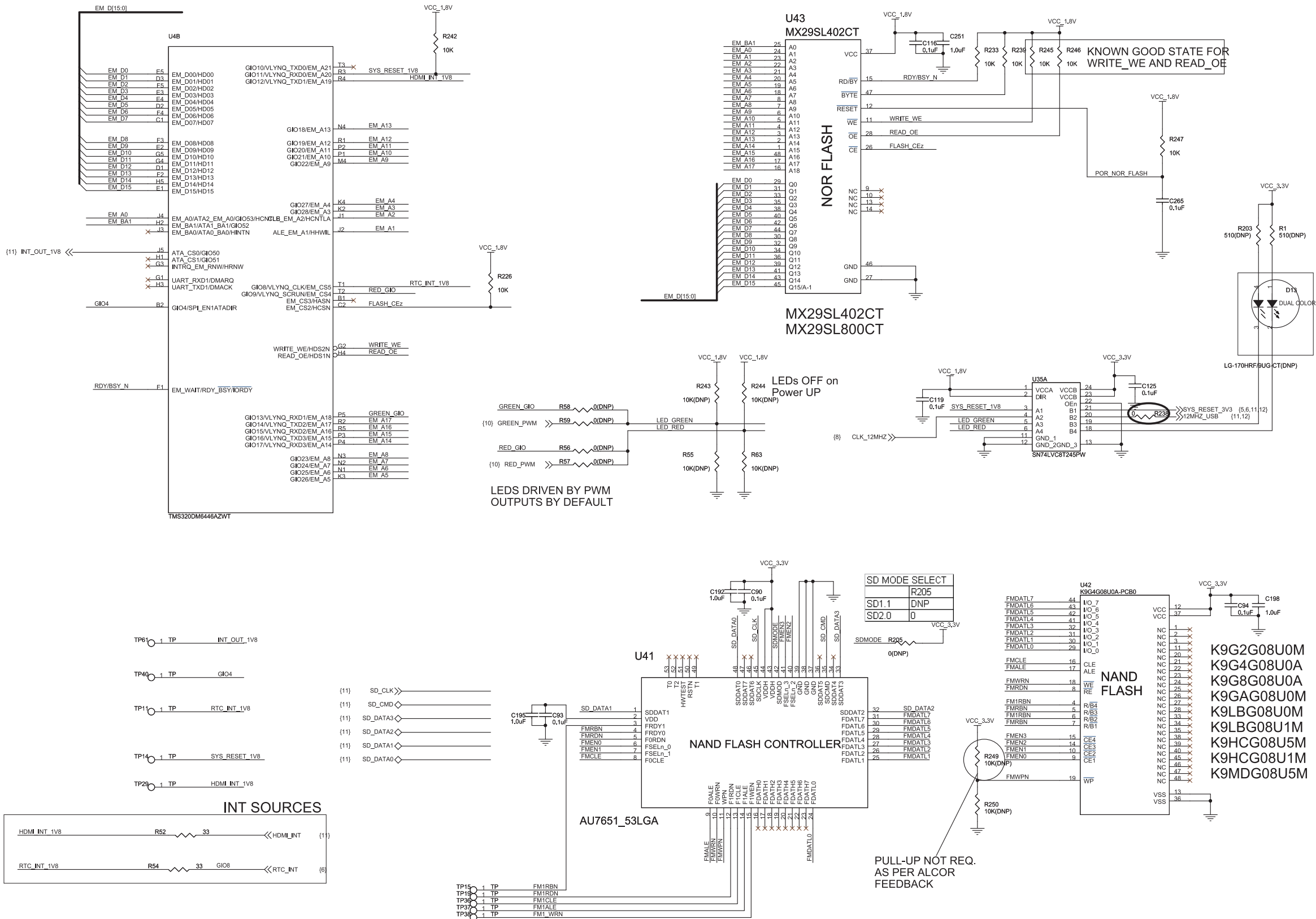
Model : R-904N



VERISMO MODULE SCHEMATIC_2

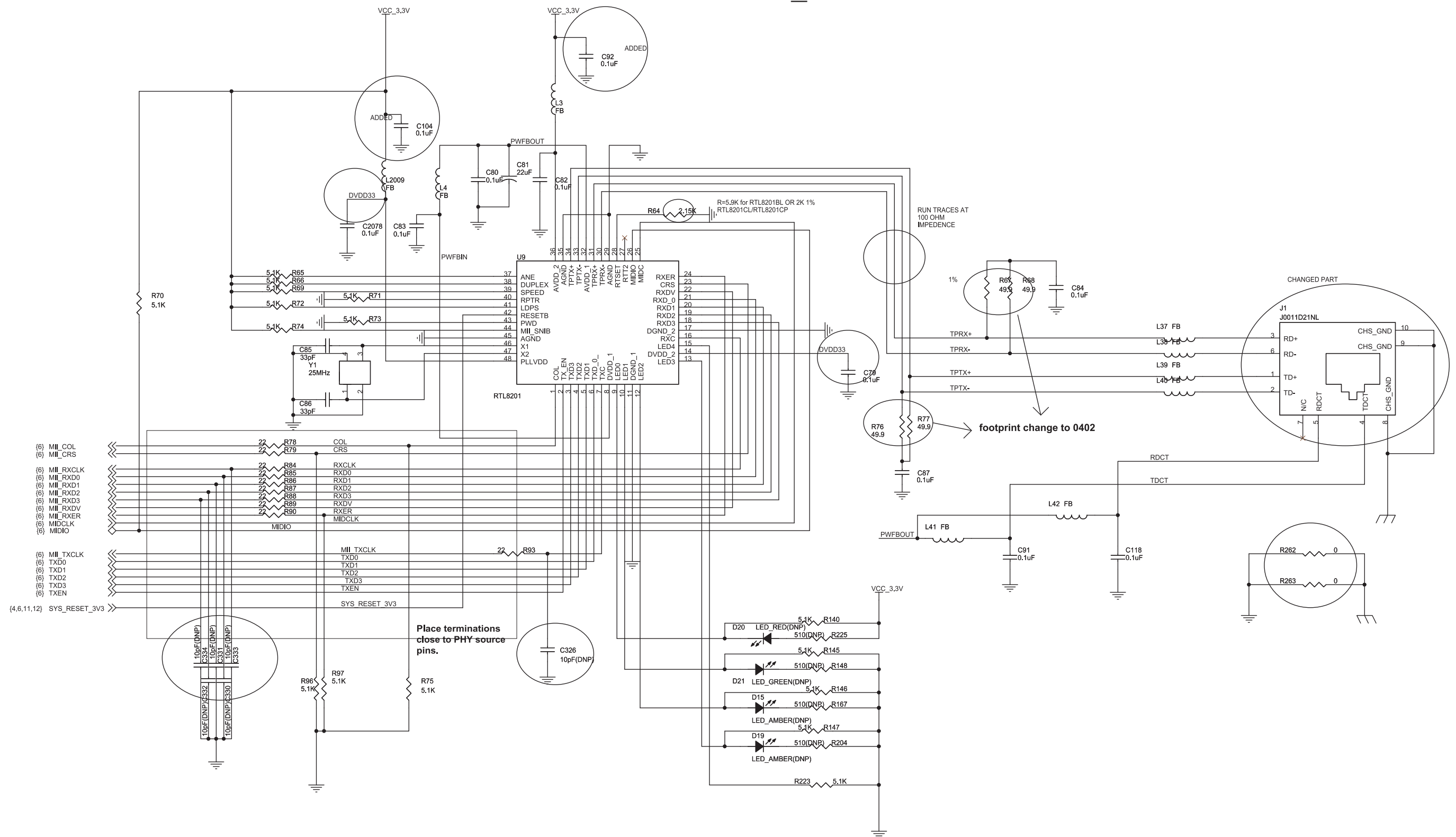
Model : R-904N

Locate these together for Daughter Card



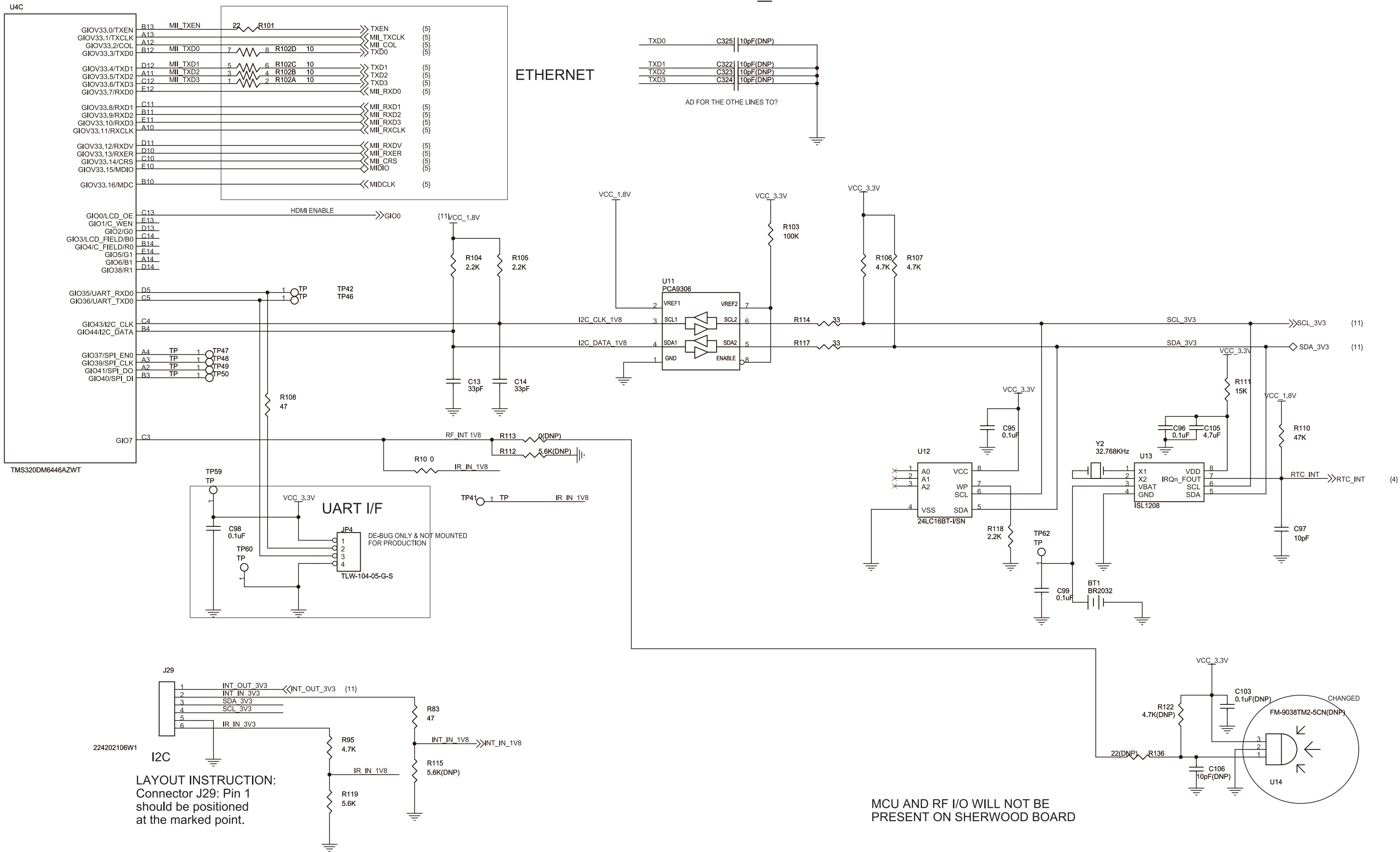
VERISMO MODULE SCHEMATIC_3

Model : R-904N



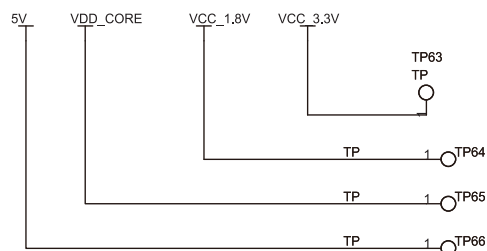
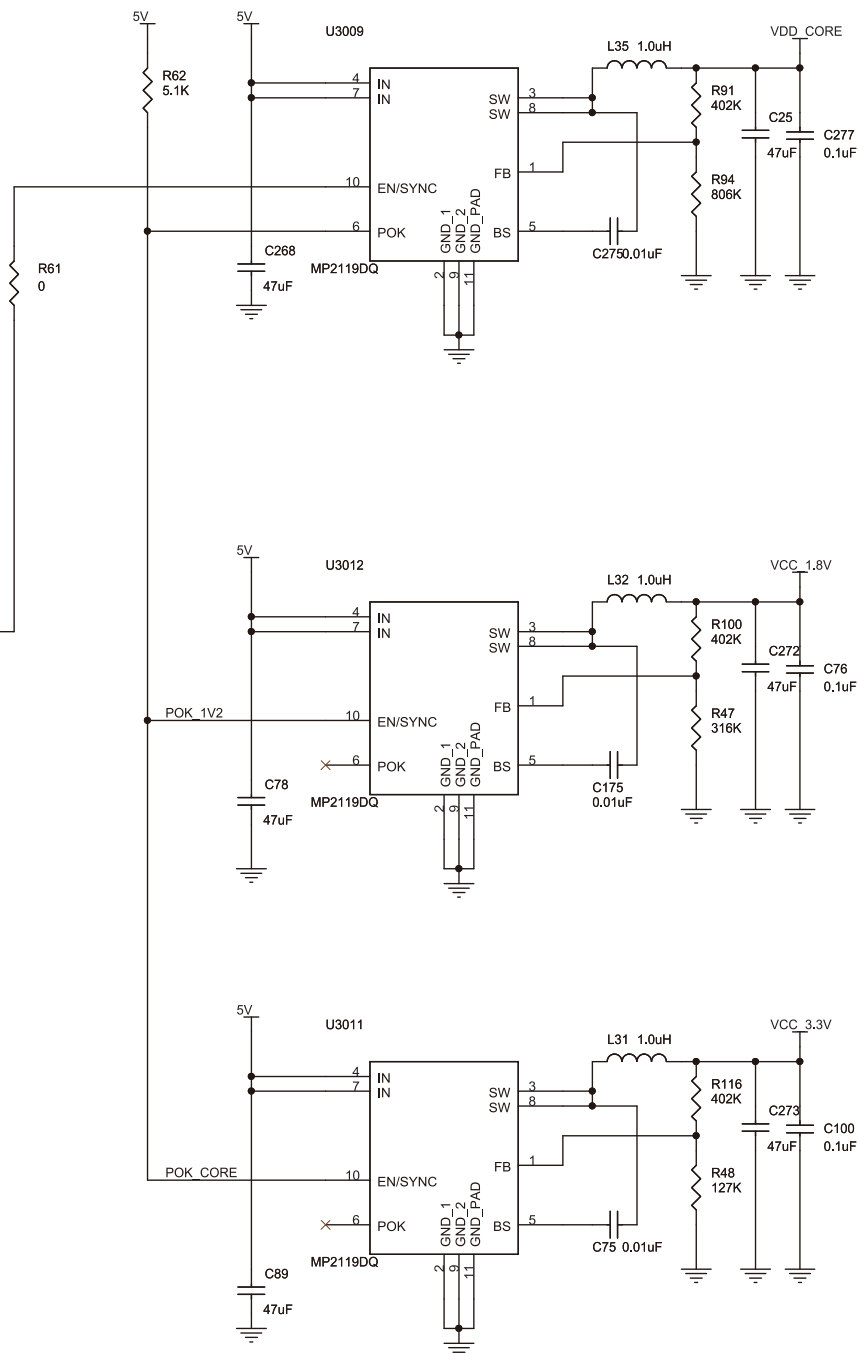
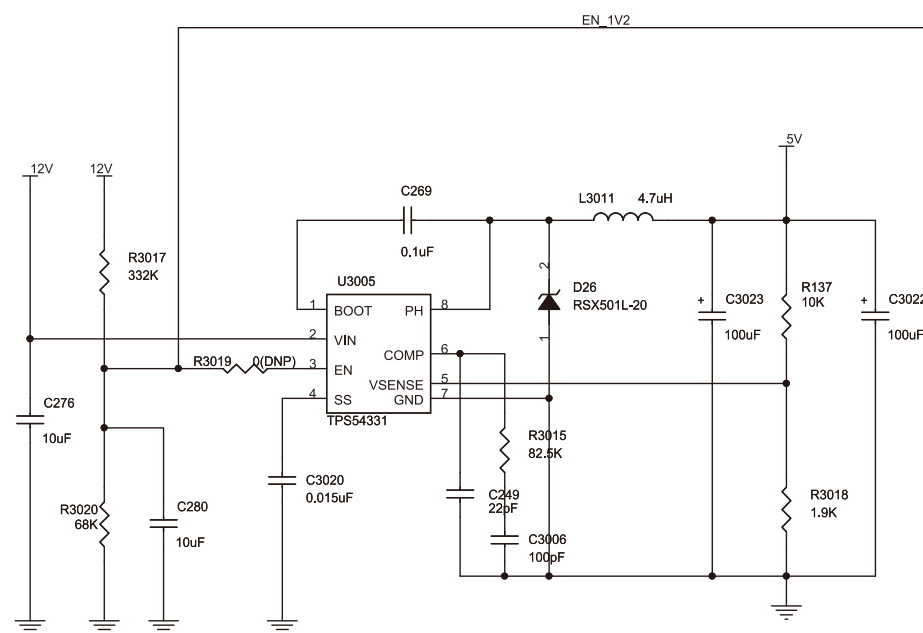
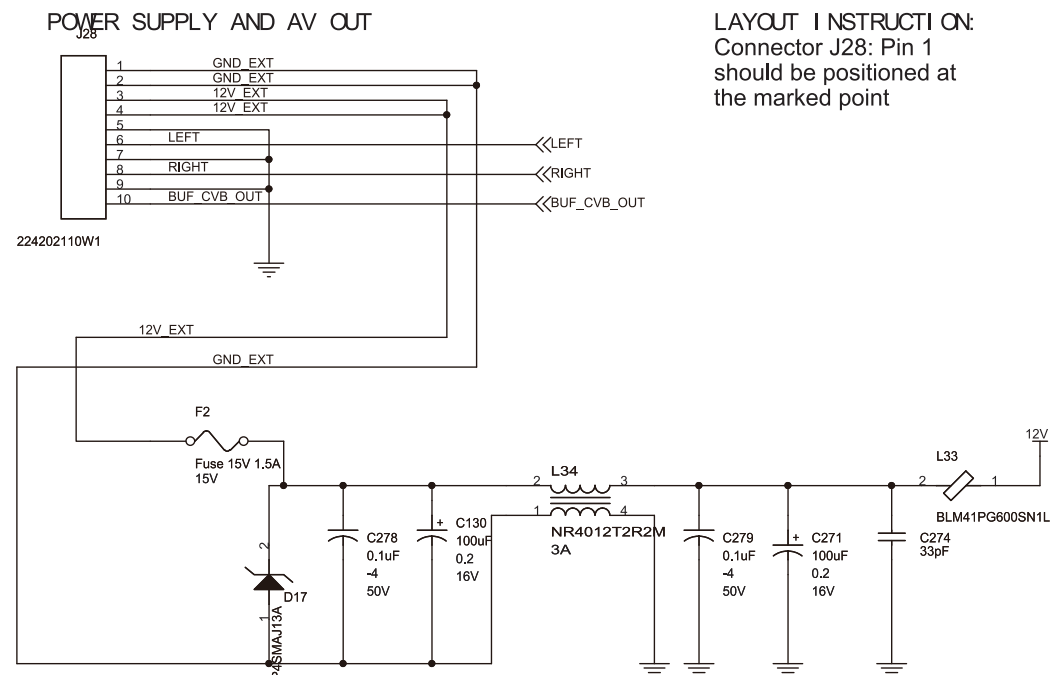
VERISMO MODULE SCHEMATIC_4

Model : R-904N



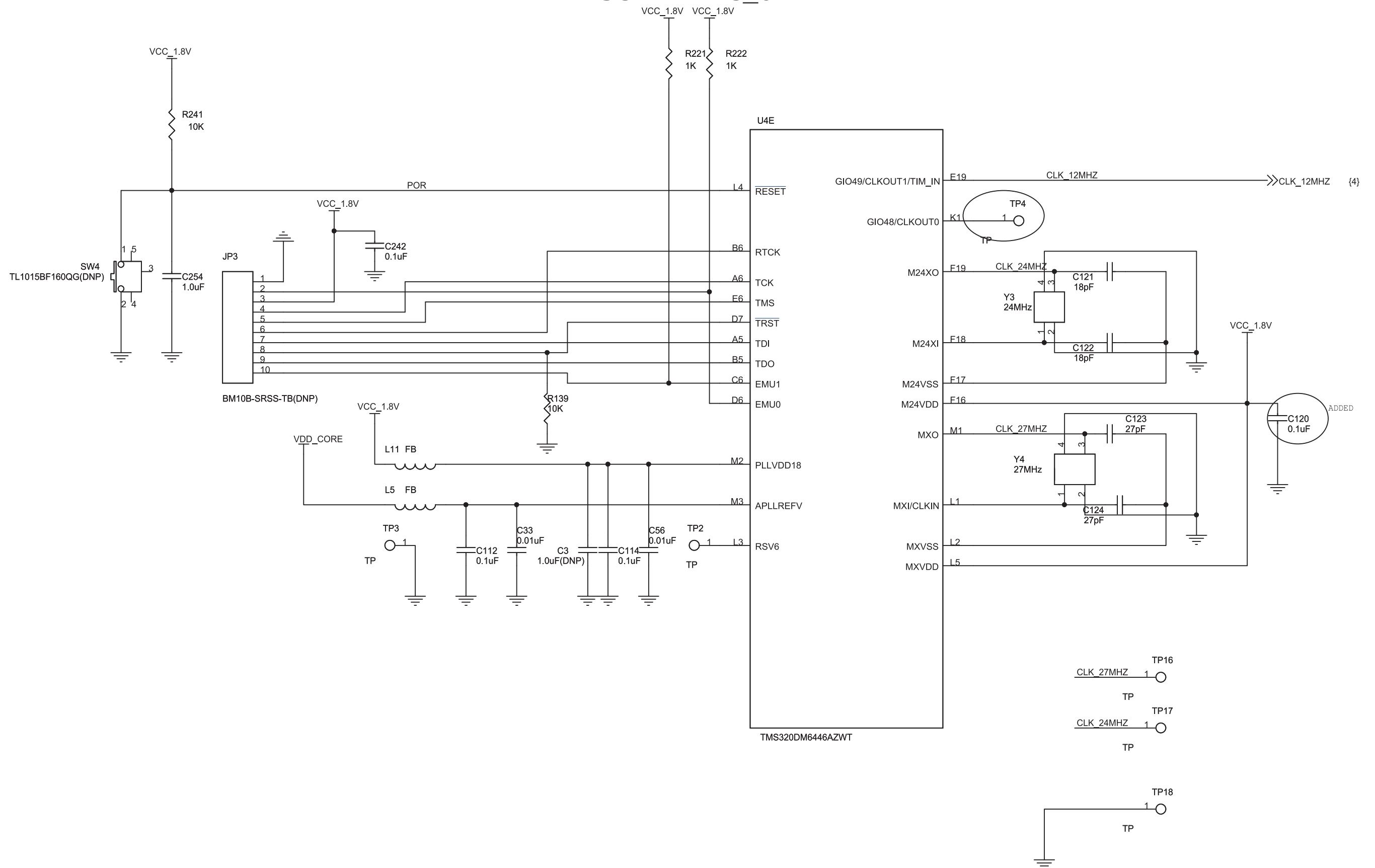
VERISMO MODULE SCHEMATIC_5

Model : R-904N



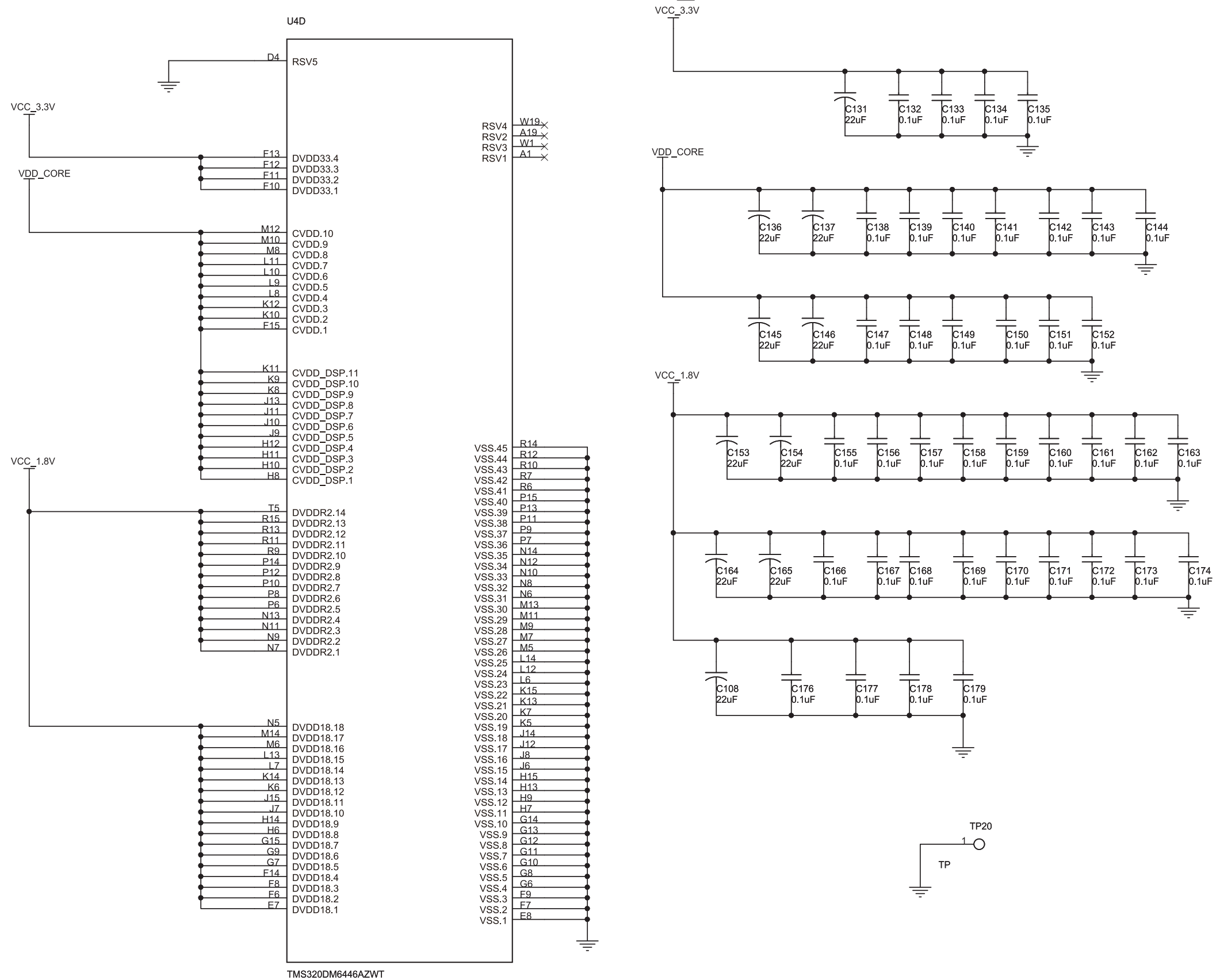
VERISMO MODULE SCHEMATIC_6

Model : R-904N



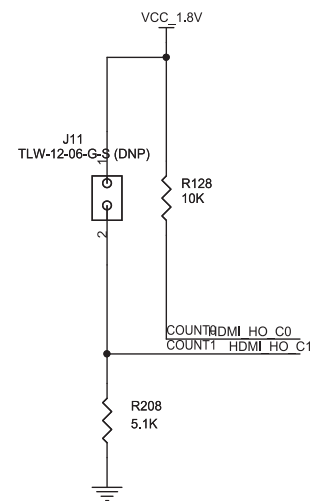
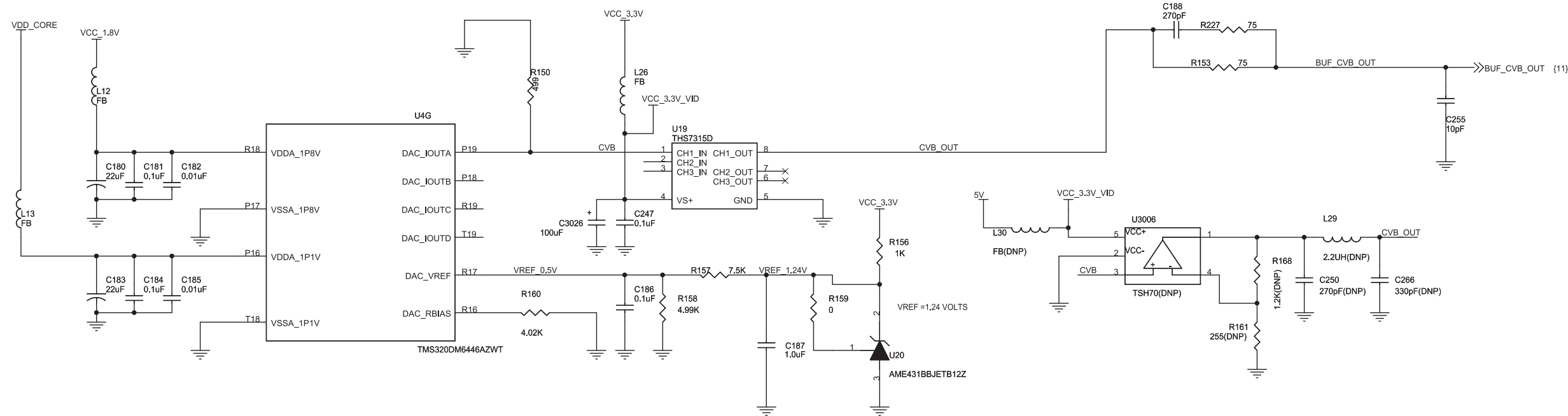
VERISMO MODULE SCHEMATIC_7

Model : R-904N



VERISMO MODULE SCHEMATIC_8

Model : R-904N



EMIF WIDTH

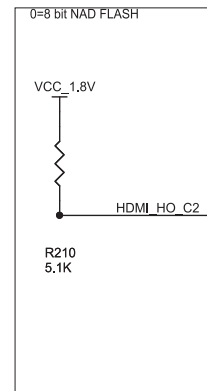
DSP BOOT OPTION

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EMA[16:0], EM_BA1

0=8 bit NAD FLASH

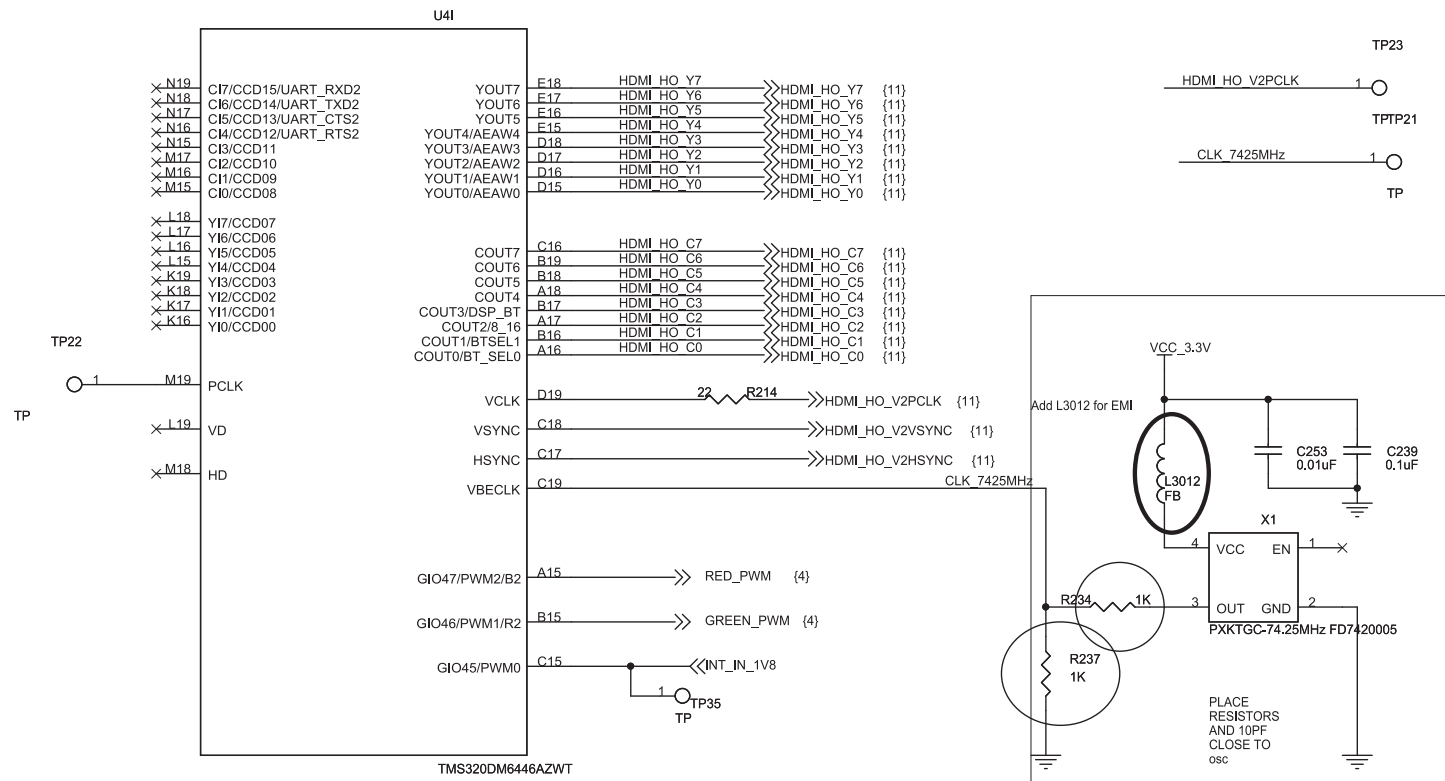
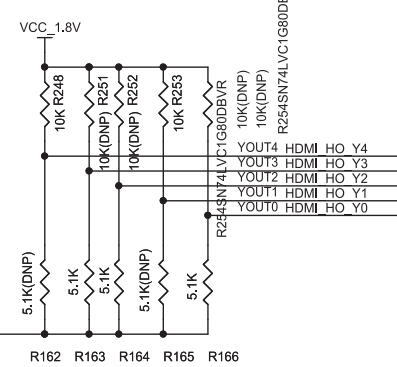
0=BOOT DSP
FROM ARM

SET IN
ASSEMBLY FOR
BOOT FROM
NAND



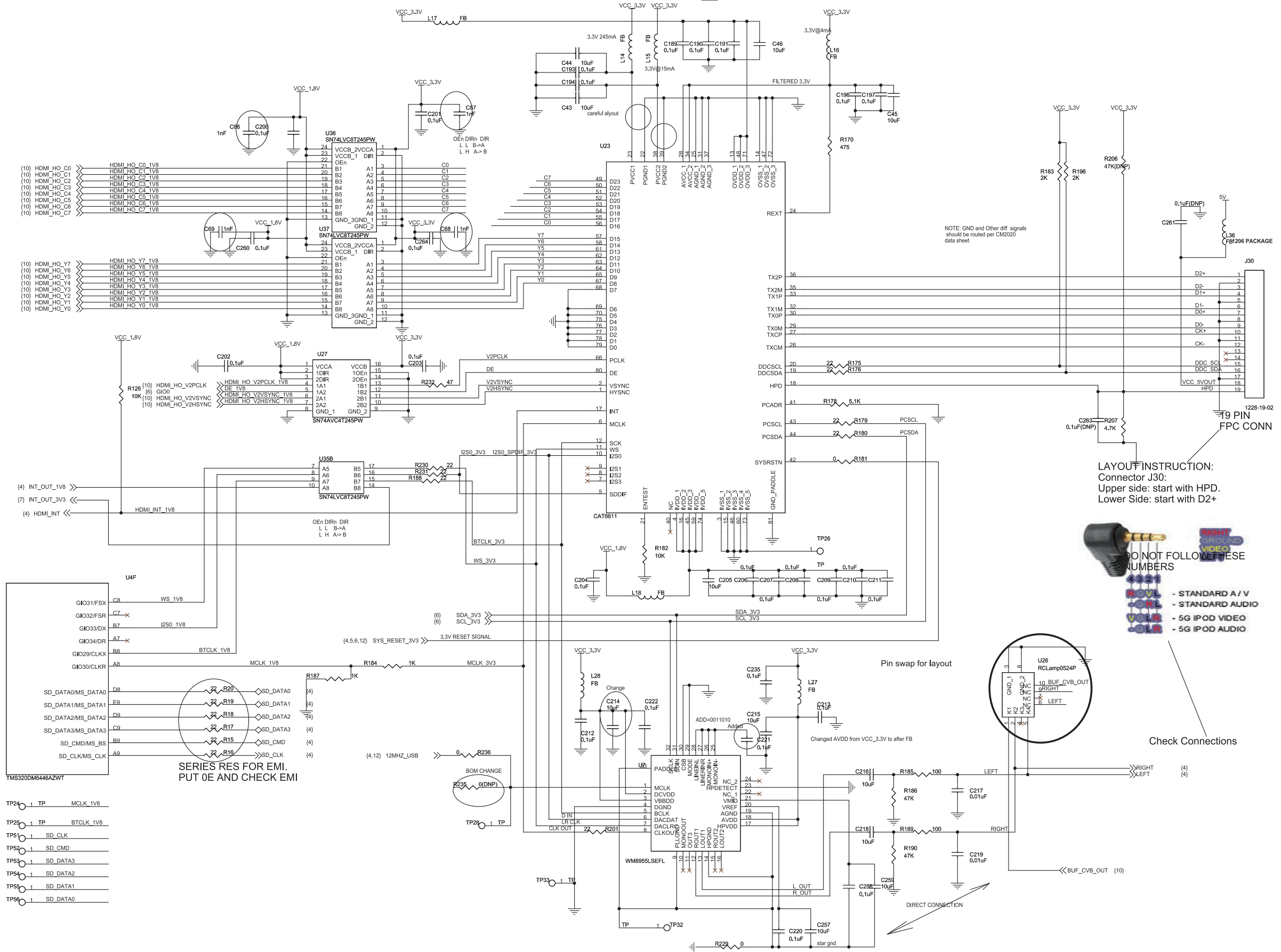
ROM BOOT OPTION

COUNT [1..0] = 00 = BOOT FROM NAD FLASH



VERISMO MODULE
SCHEMATIC_9

Model : R-904N



VERISMO MODULE SCHEMATIC_10

Model : R-904N

