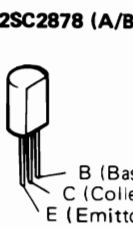
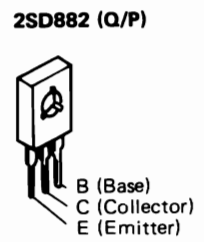
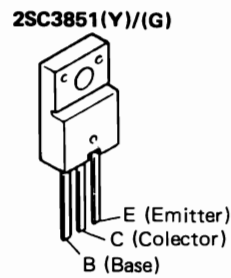
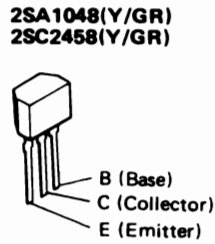
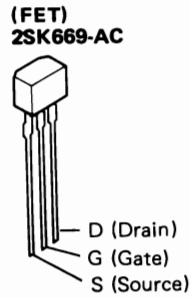
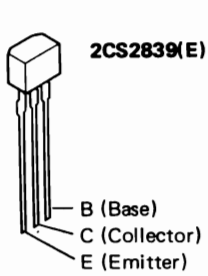
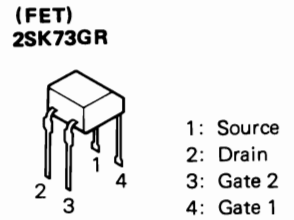
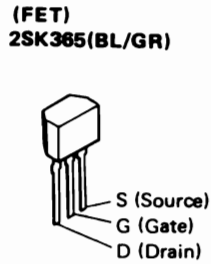
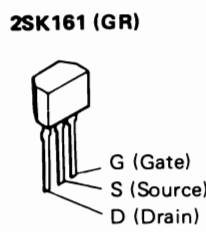
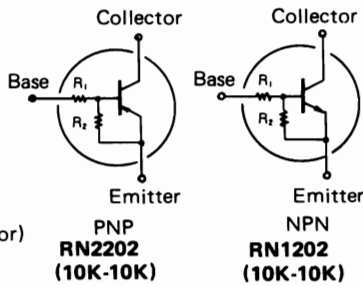
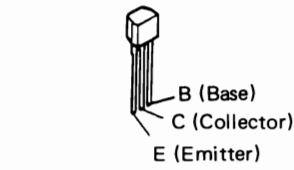


SEMICONDUCTORS

• TRANSISTORS

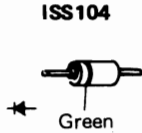
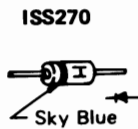
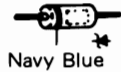


BIAS RESISTOR built-in TRANSISTORS

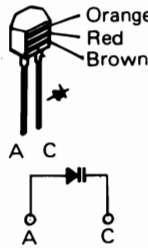


• DIODES, LEDS

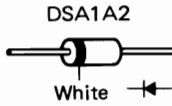
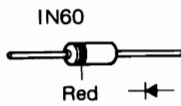
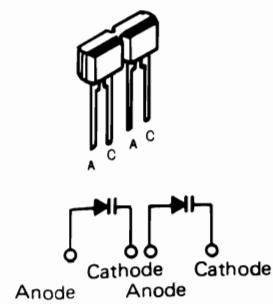
- HZ5C-1 HZ33L-1
- HZ6LB-1 HZ520-1
- HZ59A-1 HZ53B-2
- HZ9LA-2 HZ54B-3



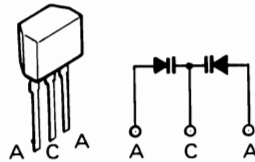
- SVC321SP-D2
- SVC321SP-ABCD (Varactor)



- KV1226-Y (Twinvaractor)



- SVC211SP-C
- SVC203 (Varactor)

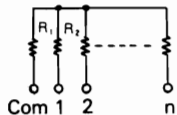


• OTHERS

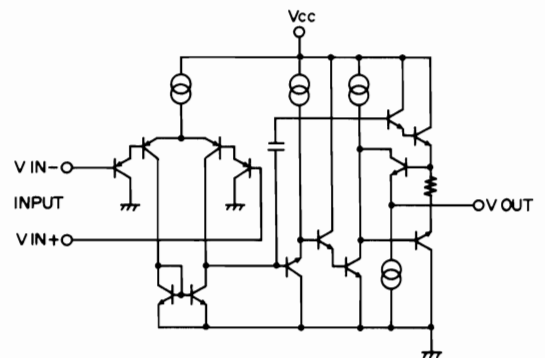
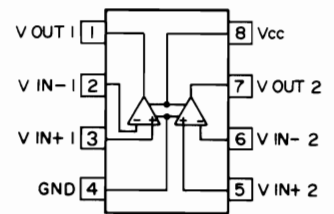
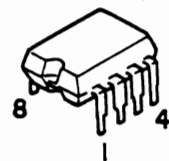
Resistor Array



Part No.	Element	Ω
2462043001	10	10 k (x10)
2462043014	10	5.6 k (x10)
2462044000	6	5.6 k Ω (x6)

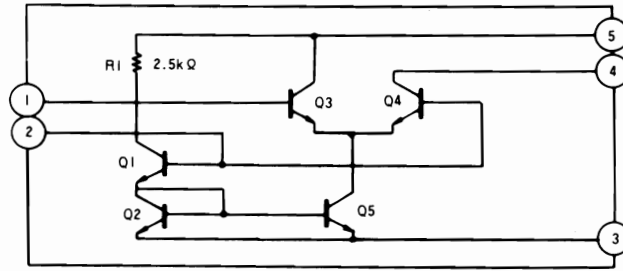
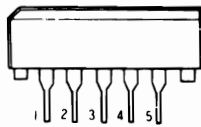


LA6358 (Sanyo)

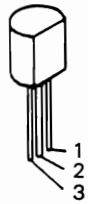


● IC's

TA7060AP (Toshiba)

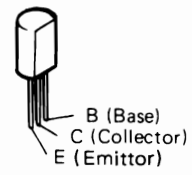


TA78L005AP (Toshiba)

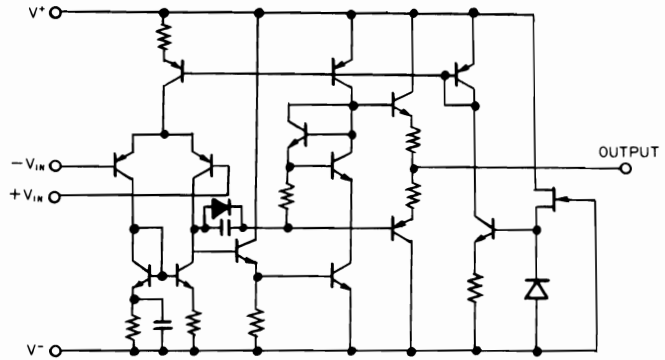
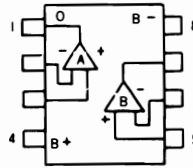
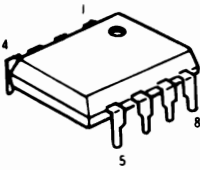


1: Input
2: Output
3: Comr

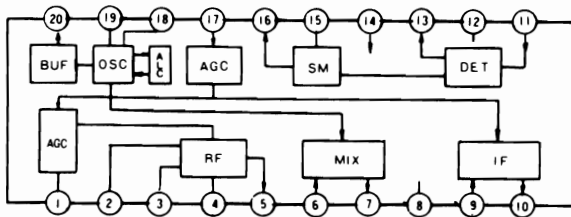
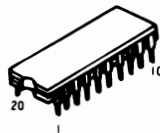
ZSC2878 (A/B)



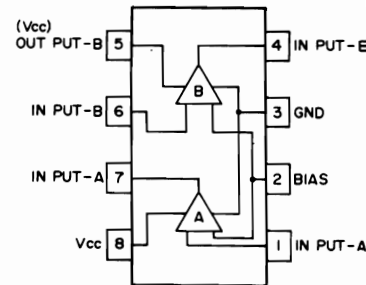
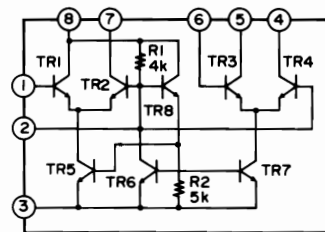
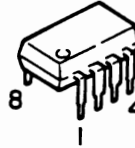
NJM4558D-D (JRC)
NJM2043DD (JRC)
NJM4560D (JRC)



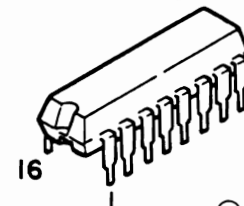
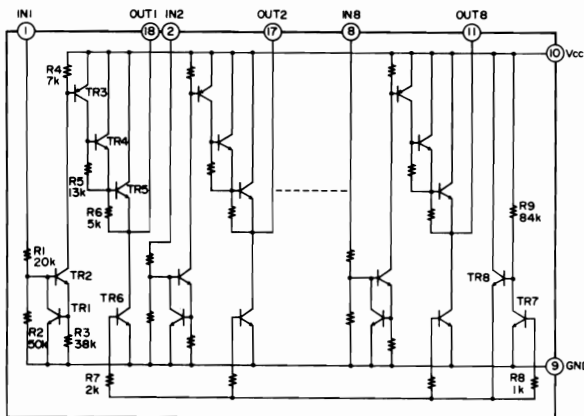
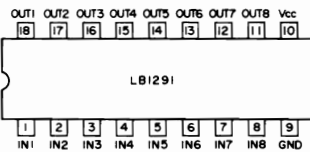
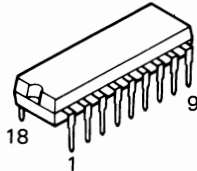
LA1245 (Sanyo)



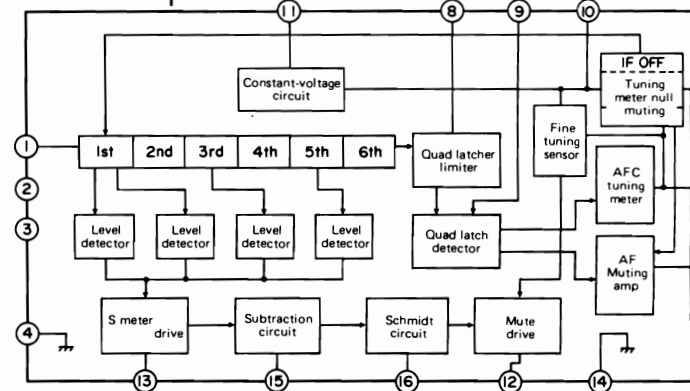
LA1222 (Sanyo)



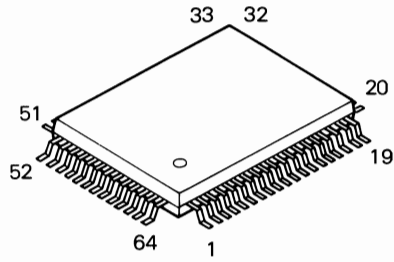
LB1291 (Sanyo)



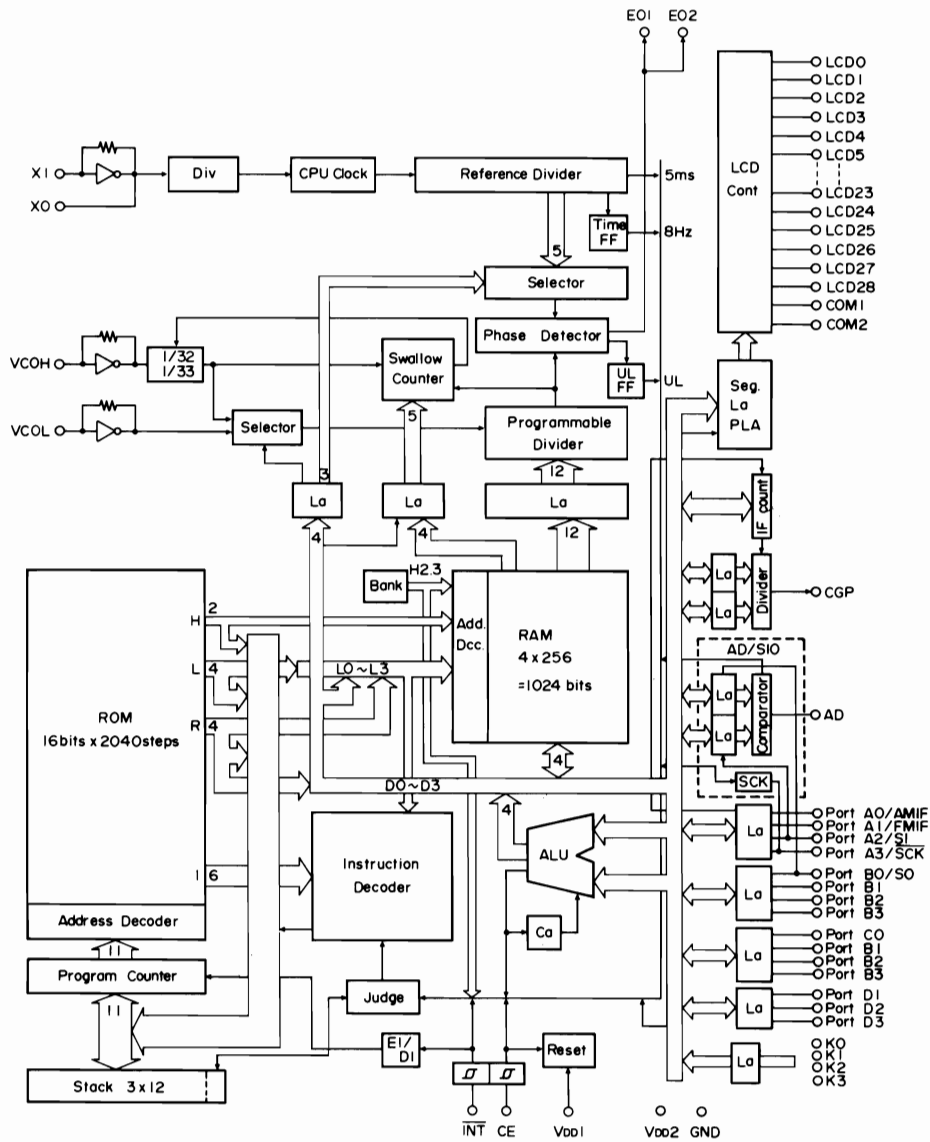
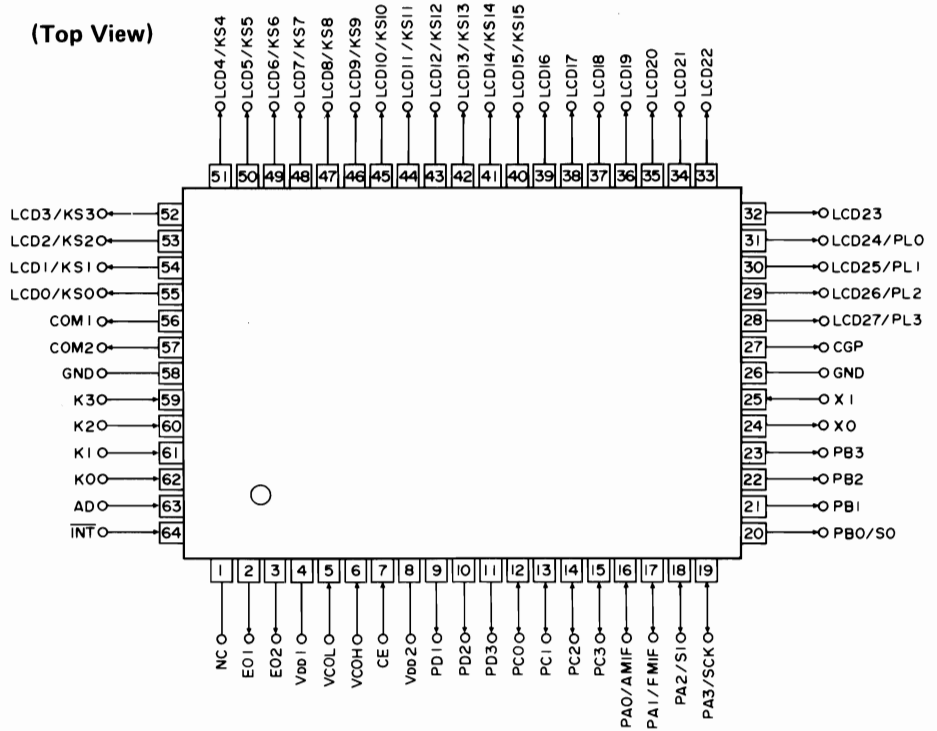
LA1235 (Sanyo)



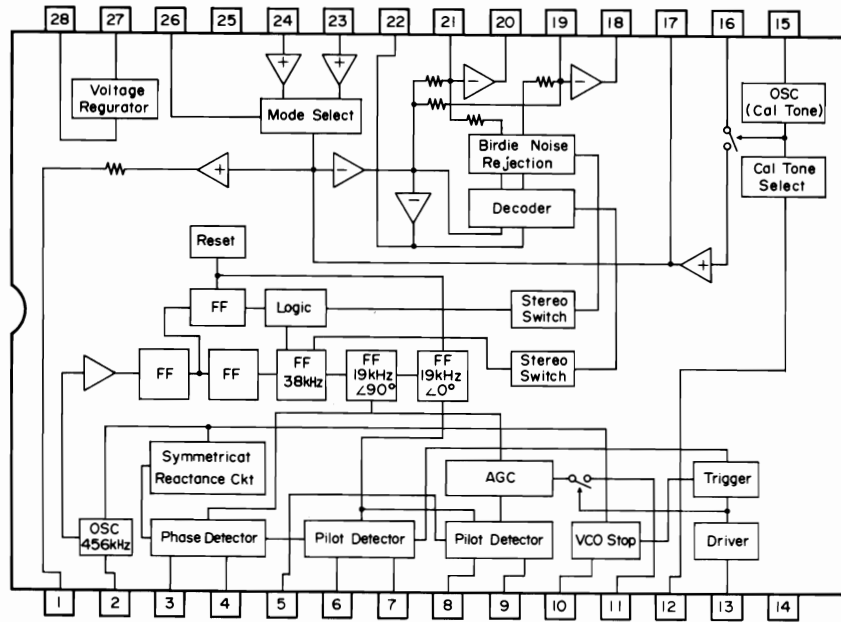
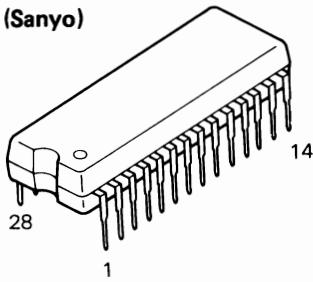
μPD1719G-530-12




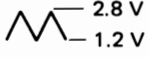
(Top View)



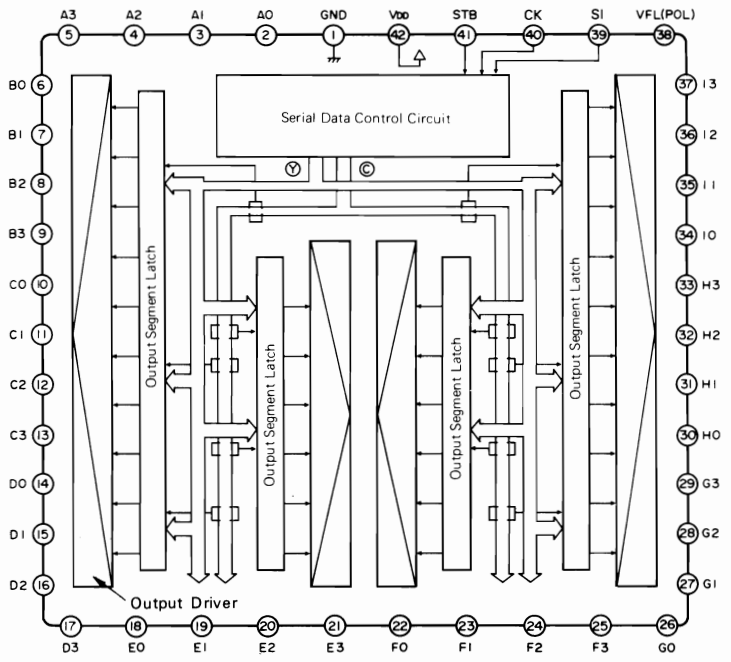
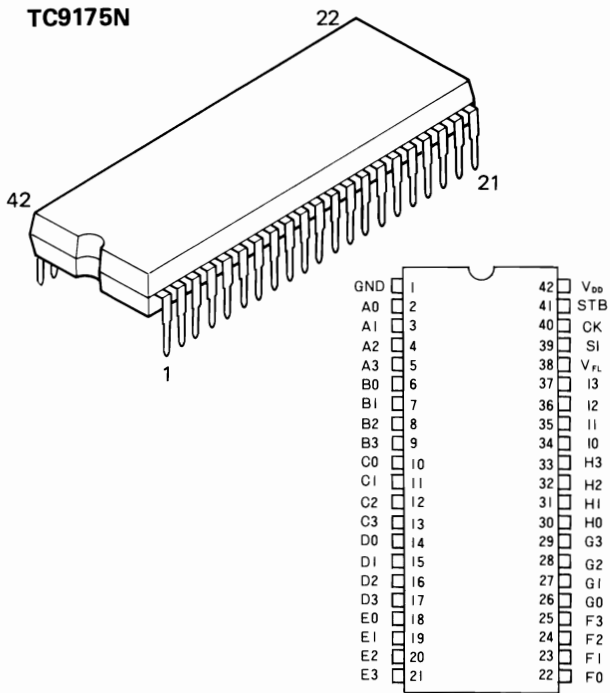
LA3450
(Sanyo)



Equivalence Circuit Block Diagram
Standard Voltages and Names of each Pin

Pin No.	Standard Voltage	Pin Name	Remarks
1	5.7 V	Composite Amp Output	Output Resistance 1 kΩ
2	—	OSC	 4.3 V 2.3 V f ≈ 456 kHz
3	2.6 V	Loop Filter	
4	2.6 V	Loop Filter	
5	2.6 V	PLL Input	
6	2.6 V	Pilot Period Detection Filter	
7	2.6 V	Pilot Period Detection Filter	
8	2.6 V	Pilot Period Detection for Pilot Filter	Cancellation
9	2.6 V	Pilot Period Detection for Pilot Filter	Cancellation
10	—	VCO Stop	Input Resistance 120 kΩ
11	—	Pilot Cancel	Triangular Wave Output Level Following
12	3.8 V	Cal Tone Control	Voltage when Pin Voltage is ON
13	—	Stereo Indicator	Open Collector
14	0	GND	
15	—	Cal Tone Oscillator Output	 2.8 V 1.2 V f ≈ 400 Hz
16	5.7 V	Cal Tone Input	
17	5.7 V	Pilot Cancel Input	
18	5.7 V	Post Amp Output	L Output
19	5.7 V	Post Amp Input	L Input, (-) Input
20	5.7 V	Post Amp Output	R Output
21	5.7 V	R Input (-) Input	R Input (-) Input
22	5.7 V	Separation Adjust	
23	5.7 V	AM Input	Input Resistance 20 kΩ
24	5.7 V	FM Input	Input Resistance 20 kΩ
25	0	SIGNAL GND	
26	—	AM/FM Select	Input Resistance 120 kΩ
27	5.7 V	Vref	Reference Voltage
28	V _{CC}	Power Supply	

TC9175N



Description of Terminal Functions

Pin No.	Symbol	Terminal Name	Description of Function, Operation	Remarks
2 3 4 5	A0 A1 A2 A3	Segment A Output Port	<p>Segment Output Port Group</p> <p>Ports A ~ I are controlled in 4-bit units through serial input data. There are a total of 36 segments. An internal N ch MOS driver is included for high voltage resistance and driving of large currents.</p> <p>Internal load resistances are provided for all segment outputs</p>	
6 7 8 9	B0 B1 B2 B3	Segment B Output Port		
10 11 12 13	C0 C1 C2 C3	Segment C Output Port		
14 15 16 17	D0 D1 D2 D3	Segment D Output Port		
18 19 20 21	E0 E1 E2 E3	Segment E Output Port		
22 23 24 25	F0 F1 F2 F3	Segment F Output Port		
26 27 28 29	G0 G1 G2 G3	Segment G Output Port		
30 31 32 33	H0 H1 H2 H3	Segment H Output Port		
34 35 36 37	I0 I1 I2 I3	Segment I Output Port		
38	VFL	VFL Power Supply Input Terminal		
39	SI	Serial Input	<p>Serial Input Port</p> <p>These are the input terminals for reception of data controlling the above segment ports.</p>	
40	CK	Clock Signal Input		
41	STB	Strobe Signal Input		
42	VDD	Power Supply Input Terminal	5 V ± 10% is input.	
1	GND			

Ref. No.	Part No.	Part Name & Descriptions			
C316	2544260045	1μF	±20%	50V	Electrolytic
C317	2561034034	0.047μF	±5%	50V	Metalized
C319	2544260045	1μF	±20%	50V	Electrolytic
C320	2544260045	1μF	±20%	50V	Electrolytic
C321	2551121025	0.01μF	±5%	50V	Plastic Film
C322	2544260032	0.47μF	±20%	50V	Electrolytic
C323	2544260032	0.47μF	±20%	50V	Electrolytic
C326	2534351003	750PF	±5%	50V	Ceramic
C328	2544260032	0.47μF	±20%	50V	Electrolytic
C329	2551121025	0.01μF	±5%	50V	Plastic Film
C330	2544252024	47μF	±20%	10V	Electrolytic
C331	2544260032	0.47μF	±20%	50V	Electrolytic
C332	2544254048	100μF	±20%	16V	Electrolytic
C333	2544260045	1μF	±20%	50V	Electrolytic
C334	2544260045	1μF	±20%	50V	Electrolytic
C401	2531024003	0.01μF	+80% -20%	50V	Ceramic
C402	2533635005	220PF	±5%	50V	Ceramic
C403	2544260045	1μF	±20%	50V	Electrolytic
C407	2531025002	0.022μF	+80% -20%	50V	Ceramic
C408	2543056014	1μF	±20%	50V	Electrolytic (B.P.)
C409	2544258057	100μF	±20%	35V	Electrolytic
C410	2544260045	1μF	±20%	50V	Electrolytic
C411	2531025002	0.022μF	+80% -20%	50V	Ceramic
C412	2543056014	1μF	±20%	50V	Electrolytic (B.P.)
C413	2544260045	1μF	±20%	50V	Electrolytic
C415	2544260045	1μF	±20%	50V	Electrolytic
C416	2531024003	0.01μF	+80% -20%	50V	Ceramic
C417	2544260074	4.7μF	±20%	50V	Electrolytic
C418	2531024003	0.01μF	+80% -20%	50V	Ceramic
C419	2531061008	2700PF	±10%	50V	Ceramic
C420	2544254035	47μF	±10%	16V	Electrolytic
C421	2531024003	0.01μF	+80% -20%	50V	Ceramic
C422	2531004007	1000PF	±10%	50V	Ceramic
C423	2531024003	0.01μF	+80% -20%	50V	Ceramic
C424	2544254006	10μF	±20%	16V	Electrolytic
C425	2531024003	0.01μF	+80% -20%	50V	Ceramic
C426	2531025002	0.022μF	+80% -20%	50V	Ceramic
C427	2531004007	1000PF	±10%	50V	Ceramic
C428	2531004007	1000PF	±10%	50V	Ceramic
C429	2531024003	0.01μF	+80% -20%	50V	Ceramic
C430	2554201049	390PF	±5%	50V	Plastic Film
C431	2533609002	18PF	±5%	50V	Ceramic
C434	2544254006	10μF	±20%	16V	Electrolytic
C435	2531024003	0.01μF	+80% -20%	50V	Ceramic
C437	2544260045	1μF	±20%	50V	Electrolytic
C439	2531024003	0.01μF	+80% -20%	50V	Ceramic
C501	2533627000	100PF	±5%	50V	Ceramic
C502	2531024003	0.01μF	+80% -20%	50V	Ceramic
C503	2533619005	47PF	±5%	50V	Ceramic
C504	2533627000	100PF	±5%	50V	Ceramic
C505	2531024003	0.01μF	+80% -20%	50V	Ceramic
C506	2531024003	0.01μF	+80% -20%	50V	Ceramic
C507	2531024003	0.01μF	+80% -20%	50V	Ceramic
C508	2531024003	0.01μF	+80% -20%	50V	Ceramic
C509	2544260045	1μF	±20%	50V	Electrolytic
C510	2544260032	0.47μF	±20%	50V	Electrolytic
C511	2533635005	220PF	±5%	50V	Ceramic
~514	2544260003	0.01μF	±20%	50V	Electrolytic
C515	2544260003	0.01μF	±20%	50V	Electrolytic
C516	2544260045	1μF	±20%	50V	Electrolytic
C517	2544260058	2.2μF	±20%	50V	Electrolytic
C518	2544260032	0.47μF	±20%	50V	Electrolytic
C519	2531024003	0.01μF	+80% -20%	50V	Ceramic
C538	2531024003	0.01μF	+80% -20%	50V	Ceramic
C601	2531024003	0.01μF	+80% -20%	50V	Ceramic
C602	2544254792	220μF	±20%	16V	Electrolytic
C604	2533611003	22PF	±5%	50V	Ceramic
C605	2533613001	27PF	±5%	50V	Ceramic
C606	2531055030	390PF	±10%	50V	Ceramic
~610	2544250013	47μF	±20%	6.3V	Electrolytic
C701	2544258015	10μF	±20%	35V	Electrolytic
C702	2544260045	1μF	±20%	50V	Electrolytic
C703	2544254019	22μF	±20%	16V	Electrolytic
C704	2544261015	47μF	±20%	50V	Electrolytic
C705	2544261743	330μF	±20%	50V	Electrolytic
C706	2531024003	0.01μF	+80% -20%	50V	Ceramic
707	2544258772	330μF	±20%	35V	Electrolytic

Ref. No.	Part No.	Part Name & Descriptions			
C709	2544254006	10μF	±20%	16V	Electrolytic
C710	2544254019	22μF	±20%	16V	Electrolytic
C711	2544254006	10μF	±20%	16V	Electrolytic
712	2544254006	10μF	±20%	16V	Electrolytic
C713	2544254051	220μF	±20%	16V	Electrolytic
C714	2544260045	1μF	±20%	50V	Electrolytic
C715	2531024003	0.01μF	+80% -20%	50V	Ceramic
C716	2544256790	2200μF	±20%	25V	Electrolytic
C717	2544260045	1μF	±20%	50V	Electrolytic
C718	2531024003	0.01μF	+80% -20%	50V	Ceramic
719	2531024003	0.01μF	+80% -20%	50V	Ceramic
C721	2531024003	0.01μF	+80% -20%	50V	Ceramic
~723	2531024003	0.01μF	+80% -20%	50V	Ceramic
C724	2544260045	1μF	±20%	50V	Electrolytic
C725	2531024003	0.01μF	+80% -20%	50V	Ceramic
~727	2531024003	0.01μF	+80% -20%	50V	Ceramic
C728	2544260074	4.7μF	±20%	50V	Electrolytic
C729	2544260032	0.47μF	±20%	50V	Electrolytic
TC101	2130041021				Trimmer Condenser
~105	2130022008				Trimmer Condenser
TC401	2130022008				Trimmer Condenser

E.U.P.

L101	2312062006	FM RF Coil
L102	2312063005	FM Ant. Coil
L103	2350025047	Inductor 2.2μH
L104	2312064004	FM OSC Coil
105	2350026020	Coil (SPT0203SA-100K)
L106	2312063005	FM Ant. Coil
L107	2312063005	FM Ant. Coil
L201	2350026020	Coil (SPT0203SA-100K)
~203	2350026020	Coil (SPT0203SA-100K)
L501	2350025047	Inductor 2.2μH
502	2312061007	FM IFT
T101	2312061007	FM IFT
T201	2312052003	FM IF Det Trans
T202	2312055000	FM IFT
T203	2312056009	FM OSC Coil
T204	2320120008	Anti Birdie Filter
T301	2320041006	Low Pass Filter
T302	2311113008	MW Ant. Trans.
303	2310056001	AM IFT
T401	2314901000	MW OSC Coil
T403	2312061007	FM IFT
T404	2610085002	FM C. Filter (SFE10.7MXH-A)
T501	2610078006	FM C. Filter (SFE10.7MM)
CF201	2610067004	FM C. Filter (SFE10.7MS3G-A)
CF202	2610086001	FM C. Filter (SFE10.7MJH-A)
CF203	2610085002	FM C. Filter (SFE10.7MXH-A)
CF204	2610079005	Ceramic Filter (CSB456F11)
CF205	2610031001	AM C. Filter (BFU45004)
CF301	2610034008	AM C. Filter (SFP450H)
CF401	2610086001	FM C. Filter (SFE10.7MJH-A)
CF402	3940014002	Lithium Battery
CF501		
~503		
BA601		

OTHER PARTS

		Q'ty
X601	2221548200	(P.W. Board)
	2050274004	2P Connector Base
	2050433010	Ant. Terminal (F)
	2050343074	7P Connector Base (KR-PH)
	2050375013	11P Connector Base (KR-PH)
	3990061004	X'tal
	4170253013	Radiator
	4713304015	Bind Screw 3x8
	4140429000	Shield Case (A)
	4140430002	Shield Case (B)