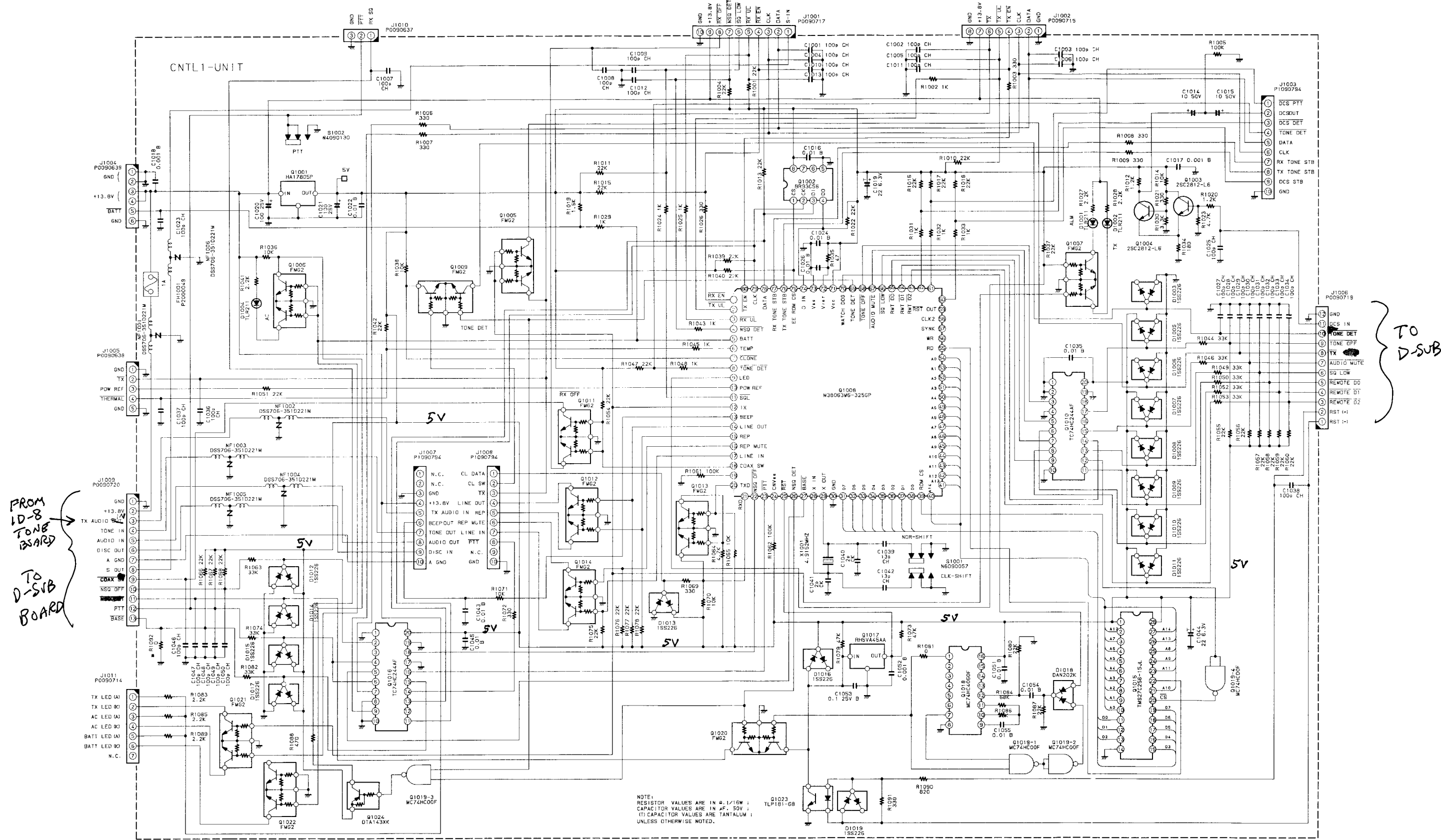


Circuit Diagram



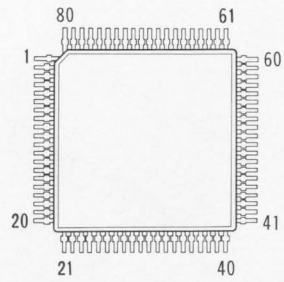
FROM ID-8 TONE BOARD TO D-SUB BOARD

TO D-SUB

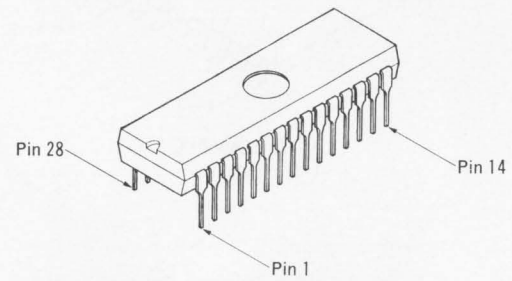
NOTE:
RESISTOR VALUES ARE IN Ω, 1/16W;
CAPACITOR VALUES ARE IN μF, 50V;
(†) CAPACITOR VALUES ARE TANTALUM;
UNLESS OTHERWISE NOTED.

R1092
0 OHM:BASE STATION

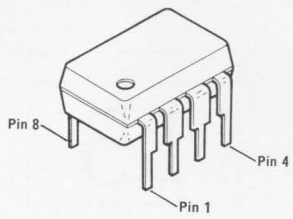
Parts Layout



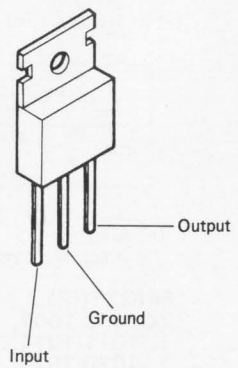
M38063M6
(Q1008)



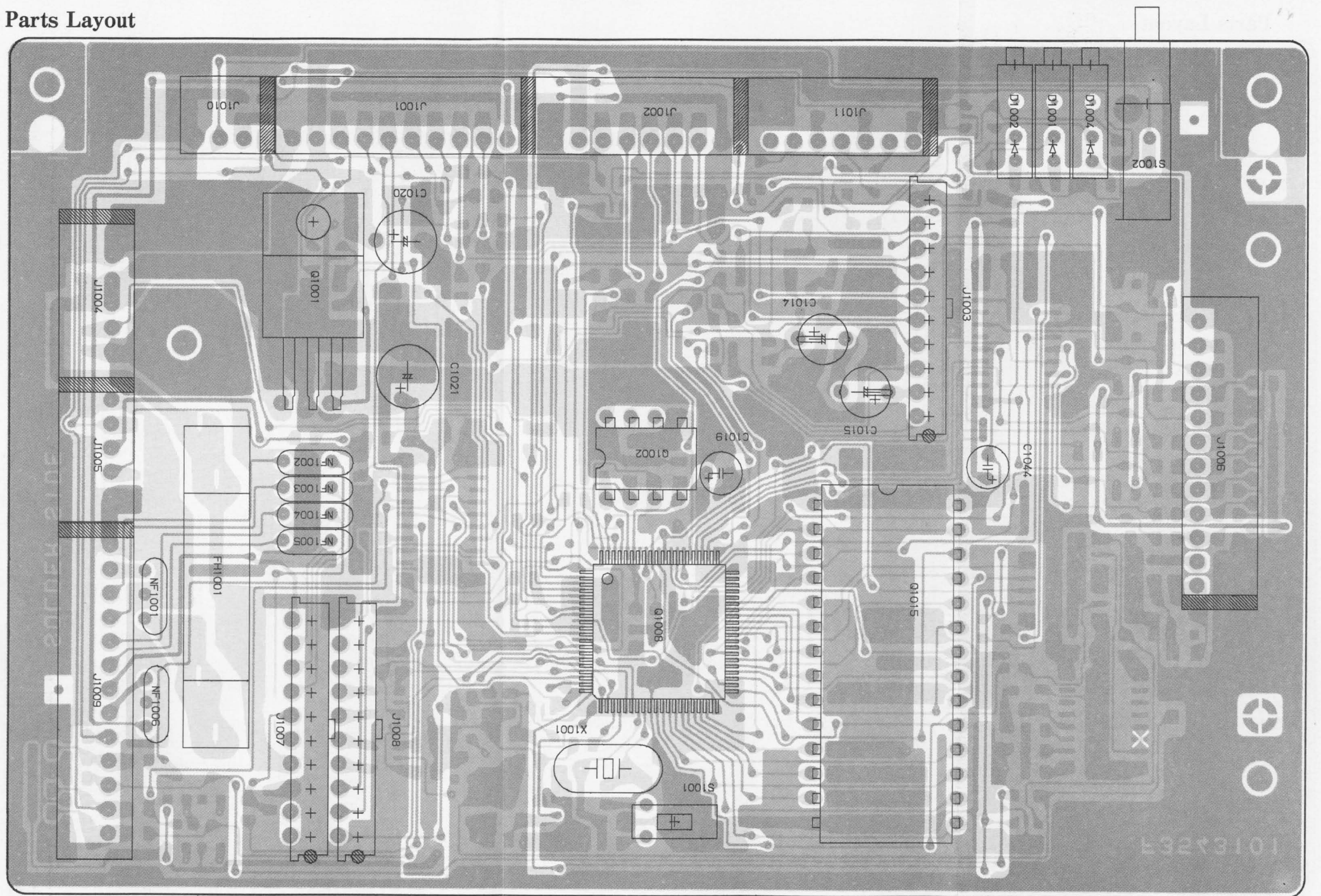
TMS27C256-15JL
(Q1015)



BR93C56
(Q1002)

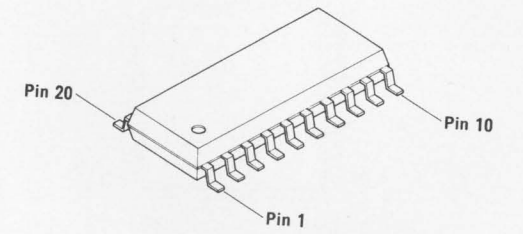
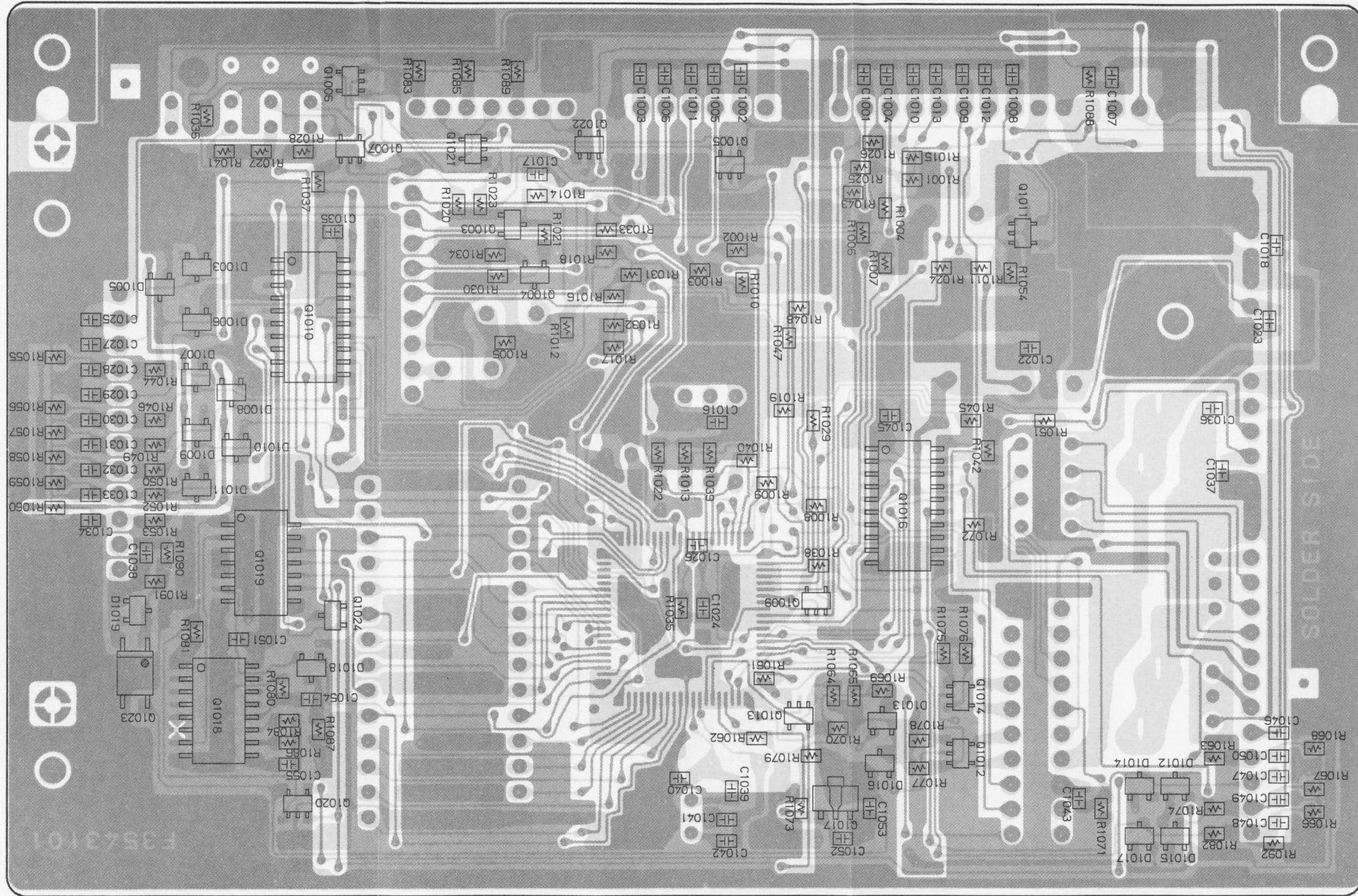


HA17805P
(Q1001)

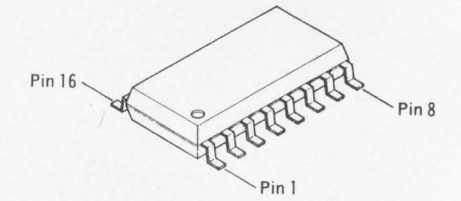


obverse view of component side

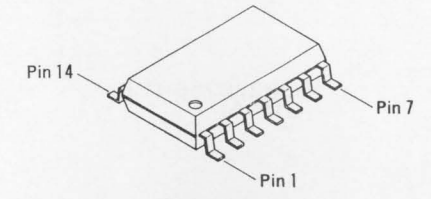
Parts Layout



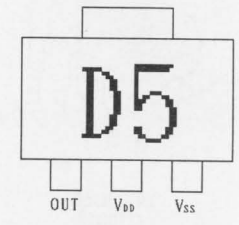
TC74HC244AF
(Q1010, 1016)



MC74HC4060FL
(Q1018)

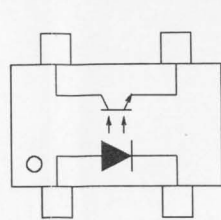


MC74HC00FL
(Q1019)

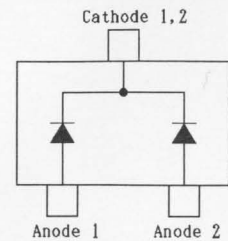


RH5VA45AA (D5)
(Q1017)

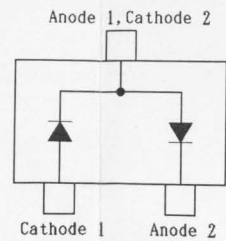
obverse view of chip side



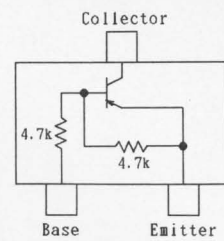
TLP181
(Q1023)



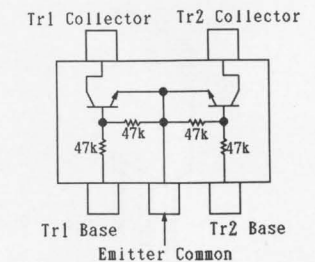
DAN202K (N)
(D1018)



1SS226 (C3)
(D1003, 1005-1017,
1019)



DTA143XK
(Q1024)



FMG2 (G2)
(Q1005-1007, 1009,
1011-1014,
1020-1022)

REF.	DESCRIPTION	VALUE	WV	TOL.	MFGR'S DESIG	YAESU P/N	VERS.	LOT.
*** CNTLI UNIT ***								
	PCB with Components					CP5284001		
	Printed Circuit Board					F3543101		
C 1001	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1002	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1003	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1004	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1005	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1006	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1007	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1008	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1009	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1010	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1011	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1012	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1013	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1014	AL. ELECTRO. CAP.	10uF	50V		50V100M5X11TR5	K46170021		
C 1015	AL. ELECTRO. CAP.	10uF	50V		50V100M5X11TR5	K46170021		
C 1016	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1017	CHIP CAP.	0.001uF	50V	B	GRM40B102M50PT	K22170805		
C 1018	CHIP CAP.	0.001uF	50V	B	GRM40B102M50PT	K22170805		
C 1019	TANTALUM CAP.	22uF	6.3V		DNOJ220M1S	K70087226		
C 1020	AL. ELECTRO. CAP.	100uF	25V		25V101M6X11TR5	K46140005		
C 1021	AL. ELECTRO. CAP.	100uF	25V		25V101M6X11TR5	K46140005		
C 1022	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1023	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1024	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1025	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1026	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1027	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1028	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1029	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1030	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1031	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1032	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1033	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1034	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1035	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1036	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1037	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1038	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1039	CHIP CAP.	13pF	50V	CH	GRM40CH130J50PT	K22170214		
C 1040	CHIP CAP.	2pF	50V	CK	GRM40CK020C50PT	K22170203		
C 1041	CHIP CAP.	2pF	50V	CK	GRM40CK020C50PT	K22170203		
C 1042	CHIP CAP.	13pF	50V	CH	GRM40CH130J50PT	K22170214		
C 1043	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1044	TANTALUM CAP.	22uF	6.3V		DNOJ220M1S	K70087226		
C 1045	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1046	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		

CNTLI UNIT

REF.	DESCRIPTION	VALUE	WV	TOL.	MFGR'S DESIG	YAESU P/N	VERS.	LOT.
C 1047	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1048	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1049	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1050	CHIP CAP.	100pF	50V	CH	GRM40CH101J50PT	K22170235		
C 1051	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1052	CHIP CAP.	0.001uF	50V	B	GRM40B102M50PT	K22170805		
C 1053	CHIP CAP.	0.1uF	25V	B	GRM40B104M25PT	K22140811		
C 1054	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
C 1055	CHIP CAP.	0.01uF	50V	B	GRM40B103M50PT	K22170817		
D 1001	LED				TLR211	G2090342		
D 1002	LED				TLR211	G2090342		
D 1003	DIODE				1SS226 TE85R	G2070003		
D 1004	LED				TLR211	G2090342		
D 1005	DIODE				1SS226 TE85R	G2070003		
D 1006	DIODE				1SS226 TE85R	G2070003		
D 1007	DIODE				1SS226 TE85R	G2070003		
D 1008	DIODE				1SS226 TE85R	G2070003		
D 1009	DIODE				1SS226 TE85R	G2070003		
D 1010	DIODE				1SS226 TE85R	G2070003		
D 1011	DIODE				1SS226 TE85R	G2070003		
D 1012	DIODE				1SS226 TE85R	G2070003		
D 1013	DIODE				1SS226 TE85R	G2070003		
D 1014	DIODE				1SS226 TE85R	G2070003		
D 1015	DIODE				1SS226 TE85R	G2070003		
D 1016	DIODE				1SS226 TE85R	G2070003		
D 1017	DIODE				1SS226 TE85R	G2070003		
D 1018	DIODE				DAN202K T146	G2070182		
D 1019	DIODE				1SS226 TE85R	G2070003		
F 1001	FUSE					Q0000002		
FH1001	FUSE (2pcs)				HC1	P2000049		
J 1001	CONNECTOR				SC25-10WL	P0090717		
J 1002	CONNECTOR				SC25-08WL	P0090715		
J 1003	CONNECTOR				9130S-10	P1090794		
J 1004	CONNECTOR				SC25-06WL	P0090639		
J 1005	CONNECTOR				SC25-05WL	P0090638		
J 1006	CONNECTOR				SC25-12WL	P0090719		
J 1007	CONNECTOR				9130S-10	P1090794		
J 1008	CONNECTOR				9130S-10	P1090794		
J 1009	CONNECTOR				SC25-13WL	P0090720		
J 1010	CONNECTOR				SC25-03WL	P0090637		
J 1011	CONNECTOR				SC25-07WL	P0090714		
NF1001	FILTER				DSS706-351D221M25	Q9000642		
NF1002	FILTER				DSS706-351D221M25	Q9000642		
NF1003	FILTER				DSS706-351D221M25	Q9000642		
NF1004	FILTER				DSS706-351D221M25	Q9000642		
NF1005	FILTER				DSS706-351D221M25	Q9000642		
NF1006	FILTER				DSS706-351D221M25	Q9000642		

CNTL1 UNIT

REF.	DESCRIPTION	VALUE	WV	TOL.	MFGR'S DESIG	YAESU P/N	VERS.	LOT.
Q 1001	IC				HA17805P	G1090936		
Q 1002	IC				BR93LC56A	G1091191		
Q 1003	TRANSISTOR				2SC2812L6-TA	G3328127F		
Q 1004	TRANSISTOR				2SC2812L6-TA	G3328127F		
Q 1005	TRANSISTOR				FMG2 T99	G3070015		
Q 1006	TRANSISTOR				FMG2 T99	G3070015		
Q 1007	TRANSISTOR				FMG2 T99	G3070015		
Q 1008	IC				M38063M6-331GP	G1092025		
Q 1009	TRANSISTOR				FMG2 T99	G3070015		
Q 1010	IC				TC74HC244AF (EL)	G1091566		
Q 1011	TRANSISTOR				FMG2 T99	G3070015		
Q 1012	TRANSISTOR				FMG2 T99	G3070015		
Q 1013	TRANSISTOR				FMG2 T99	G3070015		
Q 1014	TRANSISTOR				FMG2 T99	G3070015		
Q 1015	IC				TMS27C256-15JL	G1092023		
Q 1016	IC				TC74HC244AF (EL)	G1091566		
Q 1017	IC				RH5VA45AA-T2	G1090922		
Q 1018	IC				MC74HC4060FL	G1090984		
Q 1019	IC				MC74HC00FL	G1090997		
Q 1020	TRANSISTOR				FMG2 T99	G3070015		
Q 1021	TRANSISTOR				FMG2 T99	G3070015		
Q 1022	TRANSISTOR				FMG2 T99	G3070015		
Q 1023	PHOTO COUPLER				TLP181-GB (TPR)	G0090021		
Q 1024	TRANSISTOR				DTA143XK T97	G3070032		
R 1001	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1002	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1003	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1004	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1005	CHIP RES.	100K	1/10W	5%	RMC1/10T 104J	J24205104		
R 1006	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1007	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1008	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1009	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1010	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1011	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1012	CHIP RES.	1.2K	1/10W	5%	RMC1/10T 122J	J24205122		
R 1013	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1014	CHIP RES.	10K	1/10W	5%	RMC1/10T 103J	J24205103		
R 1015	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1016	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1017	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1018	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1019	CHIP RES.	1.5K	1/10W	5%	RMC1/10T 152J	J24205152		
R 1020	CHIP RES.	1.2K	1/10W	5%	RMC1/10T 122J	J24205122		
R 1021	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1022	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1023	CHIP RES.	4.7K	1/10W	5%	RMC1/10T 472J	J24205472		
R 1024	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1025	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1026	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		

CNTLI UNIT

REF.	DESCRIPTION	VALUE	WV	TOL.	MFGR'S DESIG	YAESU P/N	VERS.	LOT.
R 1027	CHIP RES.	2.2K	1/10W	5%	RMC1/10T 222J	J24205222		
R 1028	CHIP RES.	2.2K	1/10W	5%	RMC1/10T 222J	J24205222		
R 1029	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1030	CHIP RES.	3.3K	1/10W	5%	RMC1/10T 332J	J24205332		
R 1031	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1032	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1033	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1034	CHIP RES.	180	1/10W	5%	RMC1/10T 181J	J24205181		
R 1035	CHIP RES.	47	1/10W	5%	RMC1/10T 470J	J24205470		
R 1036	CHIP RES.	10K	1/10W	5%	RMC1/10T 103J	J24205103		
R 1037	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1038	CHIP RES.	10K	1/10W	5%	RMC1/10T 103J	J24205103		
R 1039	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1040	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1041	CHIP RES.	2.2K	1/10W	5%	RMC1/10T 222J	J24205222		
R 1042	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1043	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1044	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1045	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1046	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1047	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1048	CHIP RES.	1K	1/10W	5%	RMC1/10T 102J	J24205102		
R 1049	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1050	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1051	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1052	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1053	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1054	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1055	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1056	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1057	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1058	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1059	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1060	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1061	CHIP RES.	100K	1/10W	5%	RMC1/10T 104J	J24205104		
R 1062	CHIP RES.	100K	1/10W	5%	RMC1/10T 104J	J24205104		
R 1063	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1064	CHIP RES.	4.7K	1/10W	5%	RMC1/10T 472J	J24205472		
R 1065	CHIP RES.	10K	1/10W	5%	RMC1/10T 103J	J24205103		
R 1066	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1067	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1068	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1069	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1070	CHIP RES.	10K	1/10W	5%	RMC1/10T 103J	J24205103		
R 1071	CHIP RES.	10K	1/10W	5%	RMC1/10T 103J	J24205103		
R 1072	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
R 1073	CHIP RES.	47K	1/10W	5%	RMC1/10T 473J	J24205473		
R 1074	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1075	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1076	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1077	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1078	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		

CNTLI UNIT

REF.	DESCRIPTION	VALUE	WV	TOL.	MFGR'S DESIG	YAESU P/N	VERS.	LOT.
R 1079	CHIP RES.	47K	1/10W	5%	RMC1/10T 473J	J24205473		
R 1080	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1081	CHIP RES.	0	1/10W	5%	RMC1/10T 000J	J24205000		
R 1082	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1083	CHIP RES.	2.2K	1/10W	5%	RMC1/10T 222J	J24205222		
R 1084	CHIP RES.	68K	1/10W	5%	RMC1/10T 683J	J24205683		
R 1085	CHIP RES.	2.2K	1/10W	5%	RMC1/10T 222J	J24205222		
R 1086	CHIP RES.	33K	1/10W	5%	RMC1/10T 333J	J24205333		
R 1087	CHIP RES.	22K	1/10W	5%	RMC1/10T 223J	J24205223		
R 1088	CHIP RES.	470	1/10W	5%	RMC1/10T 471J	J24205471		
R 1089	CHIP RES.	2.2K	1/10W	5%	RMC1/10T 222J	J24205222		
R 1090	CHIP RES.	820	1/10W	5%	RMC1/10T 821J	J24205821		
R 1091	CHIP RES.	330	1/10W	5%	RMC1/10T 331J	J24205331		
S 1001	SLIDE SWITCH				SSSS22	N6090057		
S 1002	PUSH SWITCH				SPPJ3-EN1-PLB	N4090130		
X 1001	XTAL	4.9152MHz				H0103064		
Z 1001	LED HOLDER				H-2RV-4	S6000323		
Z 1002	LED HOLDER				H-2RV-4	S6000323		
Z 1003	LED HOLDER				H-2RV-4	S6000323		
	FITTING R					R0136960		
	FITTING L					R0136970		
	FIBER					R7107410		

CNTL1 UNIT