

## 6.3 T857 Exciter PCB

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## T857 Parts List (IPN 220-01140-00)

### How To Use This Parts List

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped in alphabetical order and then in numerical order within each group. Each component entry comprises three or four columns: the circuit reference, variant (if applicable), IPN and description. A number in the variant column indicates that this is a variant component which is fitted only to the product type listed.

The miscellaneous and mechanical section lists the variant and common parts in IPN order.

### Parts List Amendments

C157	(WB) changed from 2p2 (015-21220-01) to 1p5. Low pass filter optimisation for EIA and FCC spec. (89/03-099).
C160	Changed from 15n (015-25150-01) to 47n. Low pass filter optimisation for EIA and FCC spec. (89/03-099).
R185	(WB) changed from 39K (036-15390-00) to 56K. Low pass filter optimisation for EIA and FCC spec. (89/03-099).
IC6	Changed from NE5532 (002-00012-45) to MC33078. Improved synth. lock-up times (89/03-110).
C157	(NB) changed from 5p6 (015-21560-01) to 4p7. Low pass filter optimisation for NB CEPT spec. (89/03-131).
R152	(NB) changed from 33K (036-15330-00) to 27K. Low pass filter optimisation for NB CEPT spec. (89/03-131).
R185	(NB) changed from 47K (036-15470-00) to 56K. Low pass filter optimisation for NB CEPT spec. (89/03-131).
C161	Changed from 2n2 (015-24220-01) to 1n. Filter specs. for EIA, FCC & Asia (89/05-238).
R185	(WB) changed from 56K (036-15560-00) to 47K. Filter specs. for EIA, FCC & Asia (89/05-238).
C315 & C316	Deleted. Updated after pilot run (89/05-240).
Q302 & Q303	Deleted. Updated after pilot run (89/05-240).
R309 & R310	Deleted. Updated after pilot run (89/05-240).
L320 & RV301	Deleted. Updated after pilot run (89/05-240).
C314	Changed from 1n (015-24100-08) to 150p. Updated after pilot run (89/05-240).
Q304	Changed from BC848 (000-10008-48) to BC857. Updated after pilot run (89/05-240).
R30	Changed from 270e (036-13270-00) to 100e. Updated after pilot run (89/05-240).
R322	Changed from 4K7 (036-14470-00) to 1K. Updated after pilot run (89/05-240).
C300 & C301	150p added. Updated after pilot run (89/05-240).
D304	BAT18 added. Updated after pilot run (89/05-240).
R296 & R304	56e added. Updated after pilot run (89/05-240).
R297 & R298	1K added. Updated after pilot run (89/05-240).
R327	4K7 added. Updated after pilot run (89/05-240).
R248	Changed from 100K (036-16100-00) to 120K. Tx timer unable to operate with Op Amp O/P low (89/05-265).
R245	Changed from 1K (036-14100-00) to 1K5. So that Tx timer still functions at high supply voltage (89/06-332).
R298 & R325	Changed from 1K (036-14100-00) to 2K7. To improve operation of diode switch at I/P to drive amp. (89/05-409).
C313	(Low) changed from 22p (015-22220-01) to 12p (89/09-456).
C313	(Mid) changed from 15p (015-22150-01) to 6p8 (89/09-456).
C313	(Hi) changed from 15p (015-22150-01) to 3p3 (89/09-456).
C319	Changed from 1n (015-24100-08) to 10p (89/09-456).
C322	(Hi) changed from 3p3 (015-21330-01) to 2p2 (89/09-456).
R300 & R302	(Low & Mid) changed from 330e (036-13330-00) to 150e (89/09-456).
R301	(Low & Mid) changed from 18e (036-12180-00) to 33e (89/09-456).
R314 & R316	(Mid & Hi) changed from 270e (030-03270-20) to 470e (89/09-456).
R315	(Mid & Hi) changed from 18e (030-02180-00) to 12e (89/09-456).
L309	(Hi) changed from 1.5T/2.5 HOR (052-08125-00) to 1.5T/3.0 HOR (89/09-456).
L319	Deleted (89/09-456).
C322	(Low) 3p9 added (89/09-456).
R155	Changed from 10K (036-15100-00) to 4K7. To ensure Q105 remains saturated when dr ext relay (89/09-466).

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C1		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C14		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C2		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C15		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C3		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C16		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C4		015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	C17		015-22560-01	CAP CER 0805 CHIP 56P 5% NPO 50V
C5		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C19		015-23680-08	CAP CER 0805 CHIP 680P 10% X7R 50V
C6		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C20		015-23470-08	CAP CER 0805 CHIP 470P 10% X7R 50V
C9		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C25		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C10		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C26		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V
C11		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C29		022-06330-03	CAP METAL POLYES 330N 10% 50V 5MM L/S
C12		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C30		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C13		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C33		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V





Ref	Var	IPN	Description	Ref	Var	IPN	Description
T200		050-00016-31	COIL TAIT NO 631 455KHZ IF 7MM CAN				
NOTE:		LOW	= 400-440MHZ				
		MID	= 440-480MHZ				
		HI	= 480-520MHZ				
		NB	= 2.5KHZ DEVIATION				
		WB	= 5KHZ DEVIATION				
		1PPM	= 1PPM TCXO				
		2PPM	= 2PPM TCXO				
		2.5PPM	= 2.5PPM TCXO				

(REFER TO PART C, SECTION 1.3)

## T857 Mechanical & Miscellaneous Parts (220-01140-00)

IPN	Description	IPN	Description
012-04150-01	CAP CER F/THRU 1N5 NO LEAD C1-C15 On 15 Way D Range.	319-01152-00	SHIELD A3M2250 F/THRU MTG T857 Attached To D Range Plug x1.
051-00006-02	SOLDER SPRING 1.3MM A4M1877 LED1 x2, LED2 x2.	345-00040-06	SCREW M3*8MM PAN POZI ST BZ For Final Installation Kit x2.
065-00010-13	BEAD FERRITE 7D 1.9*0.9*3.8MM STACK POLE 15 Way D Range x15.	345-00040-08	SCREW M3*12MM PAN POZI ST BZ D Range Blanking Cover Mtg x2.
201-00030-02	WIRE #1 T/C WIRE 7/0.2MM PVC RED 2 x70mm for LEDs.	345-00040-09	SCREW M3*6MM CSK POZI TRUNCATED HEAD ST BZ For Final Installation Kit x2.
201-00030-10	WIRE #1 T/C WIRE 7/0.2MM PVC BLACK 2 x70mm for LEDs.	345-00040-10	SCREW M3*6MM PAN POZI ST BZ Guide Skt to Float Plate x4, Rail x4.
206-00010-11	CABLE COAX 50 OHM RG316-U PTFE 140mm SK300/Front Panel x1, 90mm Final Inst Kit x1.	345-00040-20	SCREW M3*8MM BUTTON SKT HD BLACK ZINC PHOS Front Panel Mtg x4.
220-01140-00	PCB T857 MAIN BD	349-00020-31	SCREW TAPTITE M3X10MM PAN POZI BZ N Connector Cover x4.
232-00020-26	BUTTON PUSH FOR 232-00010-26 SWITCH For SW101.	349-00020-32	SCREW TAPTITE M3*8MM PAN POZI BZ PCB Mounting x8.
240-00010-55	PLUG 15 WAY D RANGE WIRE WRAP PINS PNL MTG PL200	349-00020-43	SCREW TAPTITE M4*12MM PAN POZI BZ Top Cover Mtg x14.
240-00100-43	PLUG COAX MINI PIN PLUG CRIMP 1.5D COAX 140mm Coax Cable to SK300 x1.	349-00020-45	SCREW TAPTITE M4*20MM PAN POZI BZ Bottom Cover Mtg x14.
240-00100-46	PLUG COAX PNL JACK SUHNER 24 SMC50-2-10C 140mm Coax Cable to Front Panel x1.	352-00010-08	NUT M3 COLD FORM HEX ST BZ D Range x2, D Range Cover x2, Vco Mtg x2.
240-02010-54	SKT 15WAY DRANGE PNL MTG 105 DEG C Guide Rail Assembly Component, Part of Installation Kit x1	352-00010-29	NUT M4 NYLOC HEX Handle x2.
240-02100-46	SKT COAX ELBOW SUHNER 16SMC50-2-10C 90mm Coax Cable For Exciter/PA Connection x2	353-00010-10	WASHER M3 FLAT 7MM*0.6MM ST BZ Float Plate x4.
240-04020-62	SKT 2 WAY RECEP TL SHORTING LINK For PLS100, 101, 102, 103 & 201 x1 Each.	353-00010-12	WASHER M3 SPRING BZ D Range x2, D Range Cover x2.
240-04020-65	SKT JACK PIN 1.3MM PCB MTG 64 WAY SIL STRIP For SJ2-1, SJ3-1, SJ4-1 TO SJ4-5, SJ5-1 TO SJ5-5	362-00010-23	GASKET SIL INSULATING TO-220 CLIP MTD Q210 x1.
303-11168-00	CHASSIS HSINK PNTD CMLPT A1M2364 800 SERIES	362-00010-33	GROMMET LED MTG 3MM LO CURRENT LEDS
303-23055-00	COVER A4M955 N CONN HOLE T857 Blanking Plate On Rear For N Connector x1.	365-00011-53	LABEL WHITE RW2365/1 104*37MM SPECIAL ADHSIVE Item Description On Outside Of Box x1.
303-23118-00	COVER A3M2247 D RANGE HOLE T855/7 Blanking Plate On Rear For Extra D Range Connector x1.	365-00100-03	LABEL BLANK 10.8*30MM S/A METLSD POLYES
303-50074-00	CLIP A3M2246 SPRING XSTR CLAMP T857 Q210 x1.	365-00100-20	LABEL WHITE S/A 28*11MM QUIKSTIK RW718/4 Rev No x1, EPROM x1, T100 x1, 'Test Report Inside' x1.
303-50078-00	CLIP A4M2630 0.1MM SPRIWIRE CABLE CLAMP T800 For Securing 140mm Coax Cable x1	365-01391-01	LABEL 30*10.8MM TAMPERMARK VOID MATT FCC Rules Pt 15 x1, FCC ID x1, Aust DOTC Cert x1, Ser No x1, Canadian DOC x1.
306-01010-00	FERRULE A4M948 HANDLE FXD EQUIP For Handle x2.	365-01500-00	LABEL 24*12MM CE CONFORMITY
308-01007-00	HANDLE A4M949 FXD EQUIP	399-00010-51	BAG PLASTIC 75*100MM
312-01052-00	LID TOP PNTD COMPL A1M2364 800 SERIES	400-00020-05	SLEEVING 1.5MM SIL RUBBER
312-01053-00	LID BOTTOM PNTD COMPL A1M2364 800 SERIES	410-01081-00	CRTN T800 MODULE KIWI REF22860 PRTD
316-06392-00	PNL FRT COMPL T857 EX A3M2218/2	410-01082-00	CRTN 10 T800 KIWI REF24417 423X410X360
316-85015-00	PIN A4M775 LOCATING D RANGE For Securing D Range x2.		
316-85099-00	PLATE FLOAT A2M2248 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
316-85100-00	PLATE FRT A2M2249 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
318-01014-00	RAIL A2M2214 FOR 800 SERIES FXD EQUIP Guide Rail Assembly Component, Part of Installation Kit x2		





## T857 Grid Reference Index (IPN 220-01140-00)

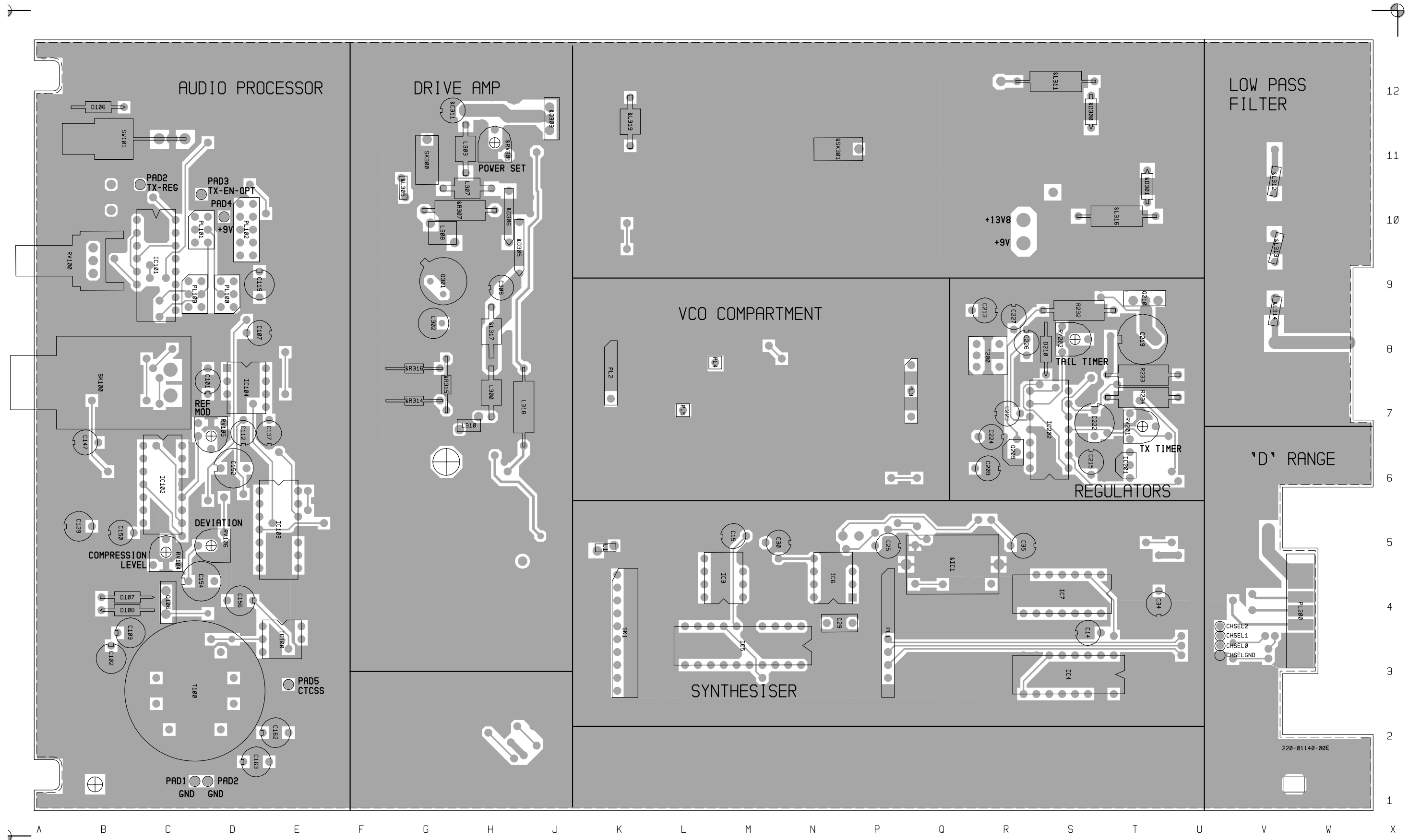
### How To Use This Grid Reference Index

The first digit in the PCB layout reference is a "1" or "2", indicating the top or bottom side layout respectively, and the last two characters give the location of the component on that diagram.

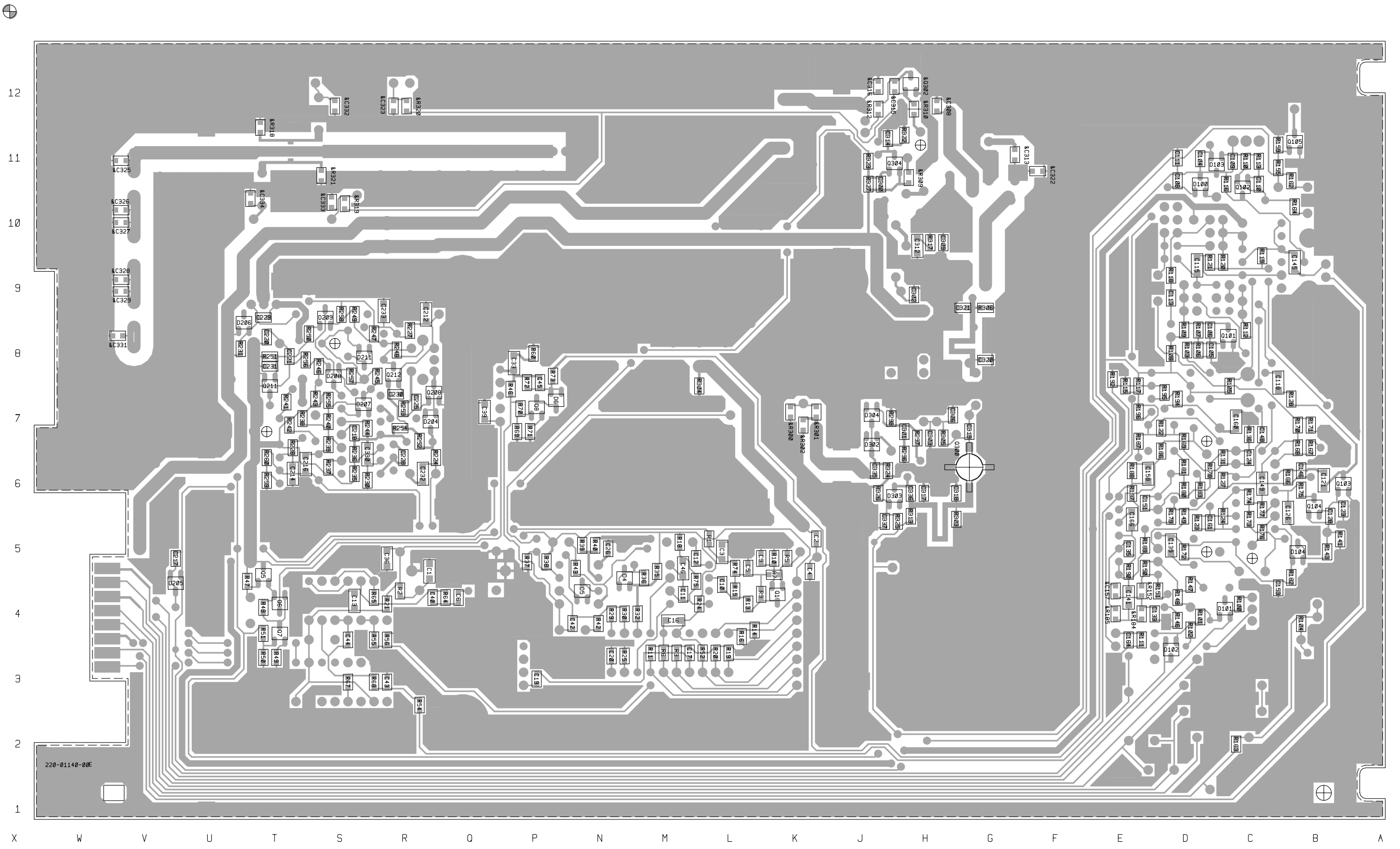
The first digit in the circuit diagram reference is the sheet number, and the last two characters give the location of the component on that sheet.

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
CHSELGND1:U3	1:Q0		C135	2:E5	2-Q4	C320	2:G8	4-F2			2-K5
CHSEL0	1:U3	1-Q1	C137	1:E7	2-Q1	C321	2:G9	4-G2			2-F1
C1	2:R5	1-A8	C139	2:D5	2-H0	#C322	2:F11	4-H2			2-H2
CHSEL1	1:U4	1-Q0	C141	2:E4	2-R5	C330	2:S7	3-C2			2-G0
C2	2:K5	1-B4	C145	2:B9	2-C5	C335	2:J6	4-B2	IC103	1:D6	2-K2
CHSEL2	1:U4	1-Q0	C146	2:B6	2-F6	C336	2:H6	4-B2			2-N4
C3	2:L5	1-B5	C147	1:B7	2-G4	C337	2:J5	4-C0			2-R4
C4	2:K5	1-B4	C148	2:C7	2-H2	D4	2:N5	1-J3			2-R1
C5	2:L5	1-B5	C149	2:C6	2-H5			1-K3			2-H0
C6	2:Q4	1-B7	C150	1:B5	2-J6	D5	2:N4	1-M3	IC104	1:D8	2-R2
C9	2:L5	1-C4	C151	2:E6	2-K2			1-M3			2-M0
C10	2:L5	1-D5	C152	1:D6	2-L2	D6	2:P7	1-N7			2-J0
C11	2:M4	1-E5	C153	2:C4	2-L6			1-N7	IC201	1:T6	3-A2
C12	2:M5	1-E4	C154	1:D4	2-M1	D100	2:D11	2-C2	IC202	1:S6	3-C2
C13	2:S4	1-E8	C156	1:D4	2-N6			2-D2			3-H2
C14	1:S4	1-F8	&C157	2:E4	2-Q4	D101	2:C4	2-B1			3-K2
C15	1:M5	1-G4	C158	2:E6	2-R0			2-B1			3-N1
C16	2:M4	1-G4	C160	2:C7	2-Q3	D102	2:D4	2-B2			3-G1
C17	2:M3	1-G2	C161	2:D5	2-F1			2-B2	L1	1:K5	1-B4
C19	2:P3	1-G2	C162	1:E2	2-A3	D103	2:D11	2-C3	L300	1:H7	4-D4
C20	2:N3	1-H3	C163	1:D2	2-A3			2-D3	L302	1:G8	4-F2
C25	1:P5	1-K5	C164	2:E4	2-D0	D104	2:B5	2-M5	L303	1:H11	4-H4
C26	2:N5	1-K2	C166	2:E6	2-Q1			2-L5	L307	1:G11	4-F4
C29	1:N4	1-L5	C209	1:R6	3-K6	D106	1:B12	2-R8	L308	1:G10	4-H3
C30	1:N5	1-L4	C212	2:R9	3-Q7	D204	2:R7	3-L7	L309	1:G11	4-H3
C33	2:P8	1-M5	C213	1:R9	3-Q7			3-L6	L310	1:H7	4-D3
C34	1:T4	1-N8	C214	2:T6	3-A2	D205	2:V5	3-C6	#L317	1:H8	4-D5
C35	1:R5	1-Q7	C215	1:S6	3-C2			3-C6	L318	1:J8	4-D1
C36	2:R5	1-R7	C216	2:T6	3-C3	D206	2:U9	3-D4	PAD1	1:C1	2-R8
C39	2:Q7	1-Q9	C217	2:V5	3-C5			3-D5	PAD2	1:C11	2-R9
C40	2:R4	1-C7	C218	2:S7	3-H1	D207	2:S7	3-H3	PAD3	1:D10	2-B2
C42	2:N4	1-L5	C219	1:T8	3-F3			3-J2	PAD4	1:D10	2-R6
C43	2:R3	1-G6	C220	2:T8	3-F3	D208	2:S8	3-L3	PAD5	1:E3	2-N6
C44	2:S4	1-H7	C221	2:T8	3-F3			3-L3	PAD6	1:D1	2-R6
C45	2:P8	1-N5	C222	1:S7	3-J3	D209	2:S9	3-P2	PL1	1:P5	1-Q1
C46	2:M5	1-D5	C223	1:R7	3-N1			3-P2			1-Q0
C101	1:D8	2-B7	C224	1:R7	3-L6	D210	1:S8	3-L1			1-Q0
C102	1:B3	2-C3	C225	2:R7	3-N6	D211	2:S8	3-M1			1-Q3
C103	1:B4	2-C3	C226	1:R8	3-N6			3-M1			1-Q2
C104	2:D11	2-C3	C227	1:R9	3-Q7	D302	2:J7	4-B1			1-Q2
C105	2:D8	2-C6	C228	2:R6	3-D3	D303	2:J6	4-C1			1-Q2
C106	2:D8	2-C7	C229	2:T9	3-E4	D304	2:J7	4-B1			1-Q1
C107	1:D8	2-C8	C230	2:R7	3-P7	=IC1	1:R5	1-B8			1-Q2
C108	2:D11	2-D2	C231	2:T8	3-R2	&IC3	1:M4	1-E4			1-Q1
C109	2:C11	2-D3	C232	2:R6	3-K6	IC4	1:T3	1-F7	PL2	1:K8	1-Q4
C110	2:C11	2-D3	C233	2:R9	3-R7			1-G8			1-Q4
C111	2:D11	2-E2	C300	2:J11	4-K2	IC5	1:N4	1-F3			1-Q3
C112	1:D7	2-E6	C301	2:H7	4-A1	IC6	1:P4	1-K5			1-Q4
C113	2:D9	2-E2	C302	2:H9	4-E4			1-K3			1-Q4
C115	2:D9	2-F6	C303	2:H7	4-E3	IC7	1:T5	1-E8	PL3	1:Q8	1-R8
C118	2:C8	2-F7	C305	1:H9	4-E4			1-D7			1-R9
C119	1:D9	2-G3	C306	2:H7	4-E3			1-D7			1-R8
C121	2:B6	2-G7	C309	2:H10	4-H3			1-E7			1-R5
C123	2:B6	2-H7	C312	2:H10	4-J3			1-G7			1-R9
C124	2:C6	2-J1	#C313	2:G11	4-H3			1-H7	PL4	1:M8	1-A4
C126	2:B6	2-H0	C314	2:J11	4-J1			1-J7	PL5	1:L7	1-R8
C128	2:B6	2-J7	C317	2:H6	4-C2	IC100	1:E4	2-D1	PL100	1:D9	2-E8
C129	1:B5	2-K7	C318	2:H6	4-C2	IC101	1:C10	2-E4			2-D7
C133	2:E4	2-P4	C319	2:G7	4-D3	IC102	1:C7	2-G5			2-D8

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
		2-D7	R24	2:M4	1-G5	R155	2:C11	2-Q8	#R302	2:K7	4-B2
		2-E7	R25	2:N3	1-G3	R159	2:C11	2-Q8	R303	2:H6	4-D2
		2-E7	R29	2:N4	1-H3	R162	2:B11	2-R9	R304	2:M8	1-A4
PL101	1:C10	2-E3	R30	2:N4	1-H3	R163	2:C2	2-R6	R305	2:H7	4-D3
		2-E3	R32	2:M4	1-J3	R164	2:B10	2-R6	R306	2:G9	4-F2
		2-E3	R35	2:M5	1-J3	R166	2:B6	2-G6	#R307	1:H10	4-G3
		2-F3	R36	2:M5	1-J3	R167	2:B7	2-G4	R313	2:H6	4-D3
		2-F3	R37	2:P5	1-J5	R168	2:B7	2-H5	#R314	1:G7	4-E2
PL102	1:D10	2-F3	R38	2:P5	1-K6	R169	2:D7	2-H3	#R315	1:G7	4-E3
		2-F4	R39	2:N5	1-K3	R170	2:B7	2-H4	#R316	1:G8	4-E2
		2-F3	R40	2:N5	1-K2	R171	2:B7	2-H4	R317	2:H10	4-H4
		2-G3	R42	2:N4	1-L5	R172	2:D5	2-J7	R322	2:H11	4-K1
		2-G4	R43	2:N5	1-L4	R173	2:C6	2-J5	R323	2:J11	4-L2
		2-G3	R46	2:P8	1-M5	R174	2:C6	2-J5	R324	2:J6	4-B0
		2-G3	R47	2:T5	1-N8	R175	2:B6	2-J8	R325	2:H5	4-C1
		2-G3	R48	2:T4	1-P8	R176	2:C5	2-J6	R326	2:J6	4-C0
		2-F3	R49	2:T3	1-P7	R177	2:C6	2-J5	R327	2:J11	4-K2
		2-F3	R50	2:T3	1-P7	R178	2:D6	2-K2	SK1	1:K5	1-B1
		2-F3	R51	2:T4	1-P7	R179	2:D6	2-K3			1-B3
PL103	1:C9	2-G1	R52	2:L3	1-H4	R180	2:D6	2-K1			1-B3
		2-G1	R54	2:R3	1-G6	R181	2:D6	2-L1			1-B3
		2-G1	R55	2:S4	1-H6	R182	2:B5	2-L5			1-B2
		2-G2	R56	2:R4	1-H6	R183	2:D6	2-L2			1-B2
		2-G2	R60	2:P8	1-M5	&R184	2:E4	2-Q5			1-B2
PL200	1:W5	2-G1	R64	2:Q4	1-C7	&R185	2:E4	2-Q5			1-B2
		3-B7	R65	2:S4	1-D7	R186	2:D7	2-Q2			1-B1
		3-B7	R67	2:S3	1-G7	R187	2:E7	2-Q1			1-B1
		3-B8	R68	2:S3	1-G6	R188	2:E6	2-R0	SK100	1:B8	2-A7
		3-B6	R69	2:P7	1-L6	R189	2:E5	2-Q4	SK300	1:G11	4-J3
		3-B5	R70	2:P7	1-L6	R190	2:E5	2-R4	SW101	1:C11	2-B5
		3-B9	R71	2:P7	1-M6	R192	2:E8	2-R2	T100	1:C3	2-B3
		3-B9	R72	2:P8	1-N5	R194	2:D7	2-Q3	T200	1:R8	3-M7
		3-B8	R73	2:P8	1-N5	R195	2:D7	2-R2			
		3-B8	R74	2:L5	1-B5	R196	2:E7	2-Q3			
		3-B8	R75	2:M5	1-E5	R197	2:E6	2-R0			
		3-B7	R100	2:C4	2-B0	RV201	1:T7	3-J3			
		3-B6	RV100	1:B9	2-B4	RV202	1:S8	3-M1			
		3-B6	R101	2:D4	2-B1	R224	2:R6	3-K6			
		3-B7	R102	2:D4	2-C1	R227	2:R8	3-Q7			
		3-B6	R103	2:D8	2-C7	R228	2:T7	3-A3			
Q1	2:K4	1-C4	R104	2:B4	2-C4	R230	2:S6	3-C2			
Q5	2:T5	1-N9	RV104	1:C5	2-J6	R231	2:U8	3-D5			
Q6	2:T4	1-P9	R105	2:C8	2-C5	R232	1:T9	3-D3			
Q7	2:T4	1-P7	RV105	1:D7	2-Q3	R233	1:U8	3-E5			
Q8	2:P7	1-M7	R106	2:D8	2-C6	R234	1:U7	3-E5			
Q101	2:C8	2-D7	RV106	1:D5	2-L1	R235	2:S6	3-E3			
Q102	2:C11	2-E3	R107	2:D8	2-D7	R236	2:S7	3-E2			
Q103	2:B6	2-H7	R108	2:D8	2-D8	R237	2:S6	3-G3			
Q104	2:B6	2-J8	R109	2:D8	2-D7	R238	2:T7	3-G3			
Q105	2:B11	2-Q8	R110	2:C11	2-D5	R239	2:S7	3-G2			
Q106	1:C4	2-C1	R111	2:E4	2-D0	R240	2:S7	3-H3			
Q208	2:R7	3-M6	R112	2:C8	2-D4	R241	2:T7	3-J3			
Q209	1:R6	3-D2	R113	2:C11	2-D3	R242	2:T7	3-J3			
Q210	1:T9	3-E4	R115	2:E8	2-D6	R243	2:S7	3-K3			
Q211	2:T8	3-R2	R116	2:C11	2-E3	R244	2:S7	3-K2			
Q212	2:R8	3-P7	R117	2:E8	2-E8	R245	2:R8	3-K1			
Q300	2:G6	4-D2	R118	2:D9	2-E2	R246	2:S8	3-L3			
Q301	1:G9	4-G3	R119	2:C10	2-E6	R247	2:S8	3-N2			
Q304	2:J11	4-K2	R120	2:C9	2-E4	R248	2:R8	3-N1			
R1	2:L5	1-B6	R121	2:D9	2-E6	R249	2:S9	3-P2			
R2	2:R4	1-B9	R122	2:D7	2-E2	R250	2:T8	3-Q2			
R3	2:M3	1-B1	R123	2:D5	2-F1	R251	2:T8	3-Q2			
R5	2:K5	1-B4	R124	2:C6	2-F1	R252	2:R7	3-M5			
R6	2:M3	1-B1	R127	2:C6	2-H3	R253	2:R7	3-N6			
R7	2:K5	1-C5	R128	2:B7	2-G7	R254	2:R7	3-P5			
R9	2:L4	1-C5	R131	2:C6	2-J2	R255	2:S7	3-H3			
R10	2:K5	1-C4	R136	2:C7	2-J1	R256	2:T8	3-L3			
R11	2:M3	1-C1	R141	2:B5	2-K7	R257	2:S8	3-L2			
R13	2:L4	1-C5	R143	2:B5	2-L7	R258	2:S9	3-P2			
R14	2:L4	1-C1	R146	2:D4	2-M6	R259	2:T6	3-B1			
R15	2:L4	1-C5	R147	2:D5	2-M1	R260	2:T6	3-B2			
R16	2:L4	1-D1	R148	2:D4	2-N5	R296	2:H7	4-A0			
R18	2:M5	1-D6	R149	2:D6	2-N5	R297	2:H7	4-A1			
R19	2:L3	1-D1	R150	2:E5	2-N4	R298	2:J7	4-A0			
R20	2:L3	1-D1	R151	2:D4	2-P4	#R300	2:K7	4-A2			
R21	2:R4	1-F8	&R152	2:E4	2-P5	#R301	2:K7	4-A2			

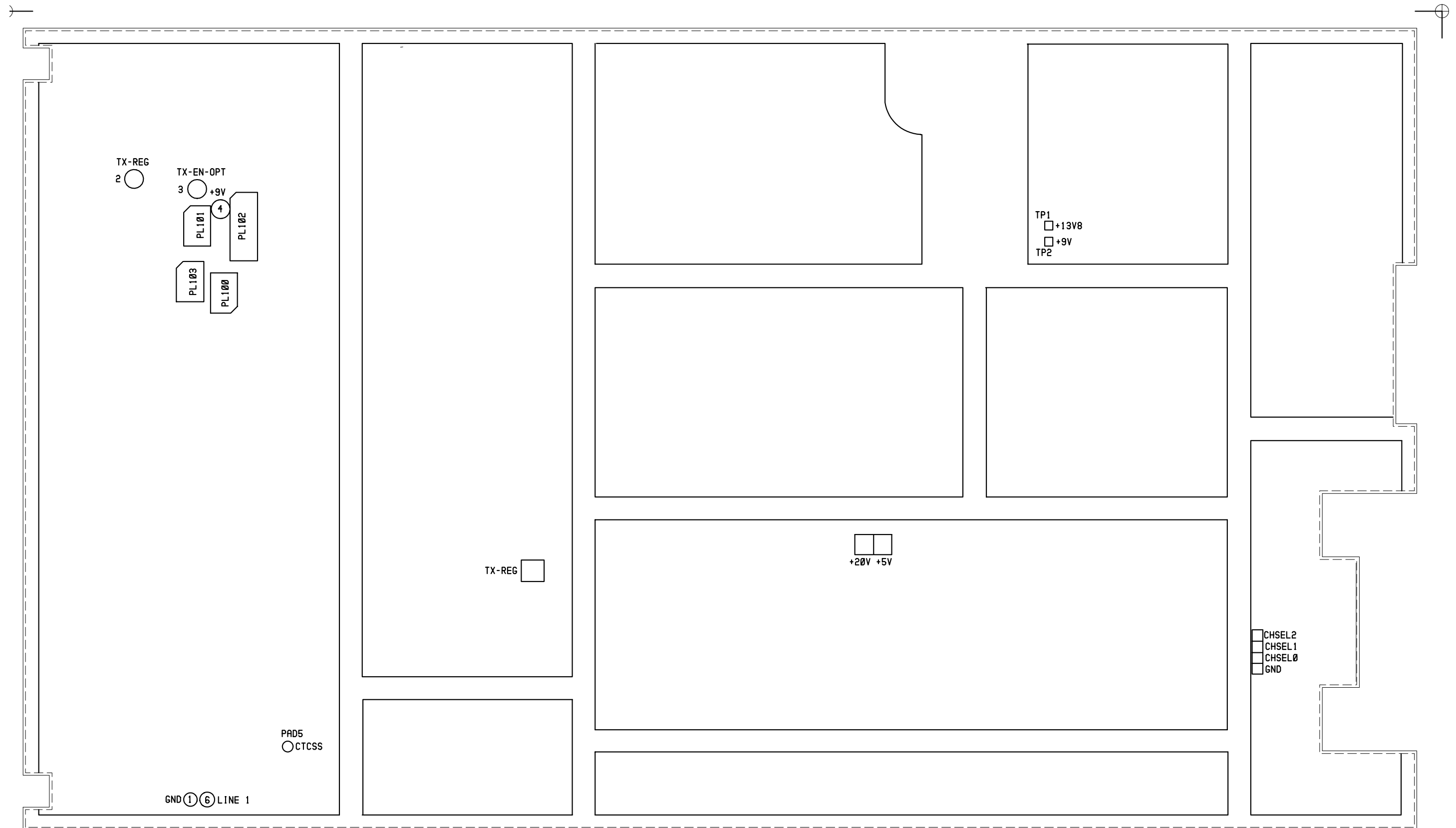


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Top Side  
220-01140-00



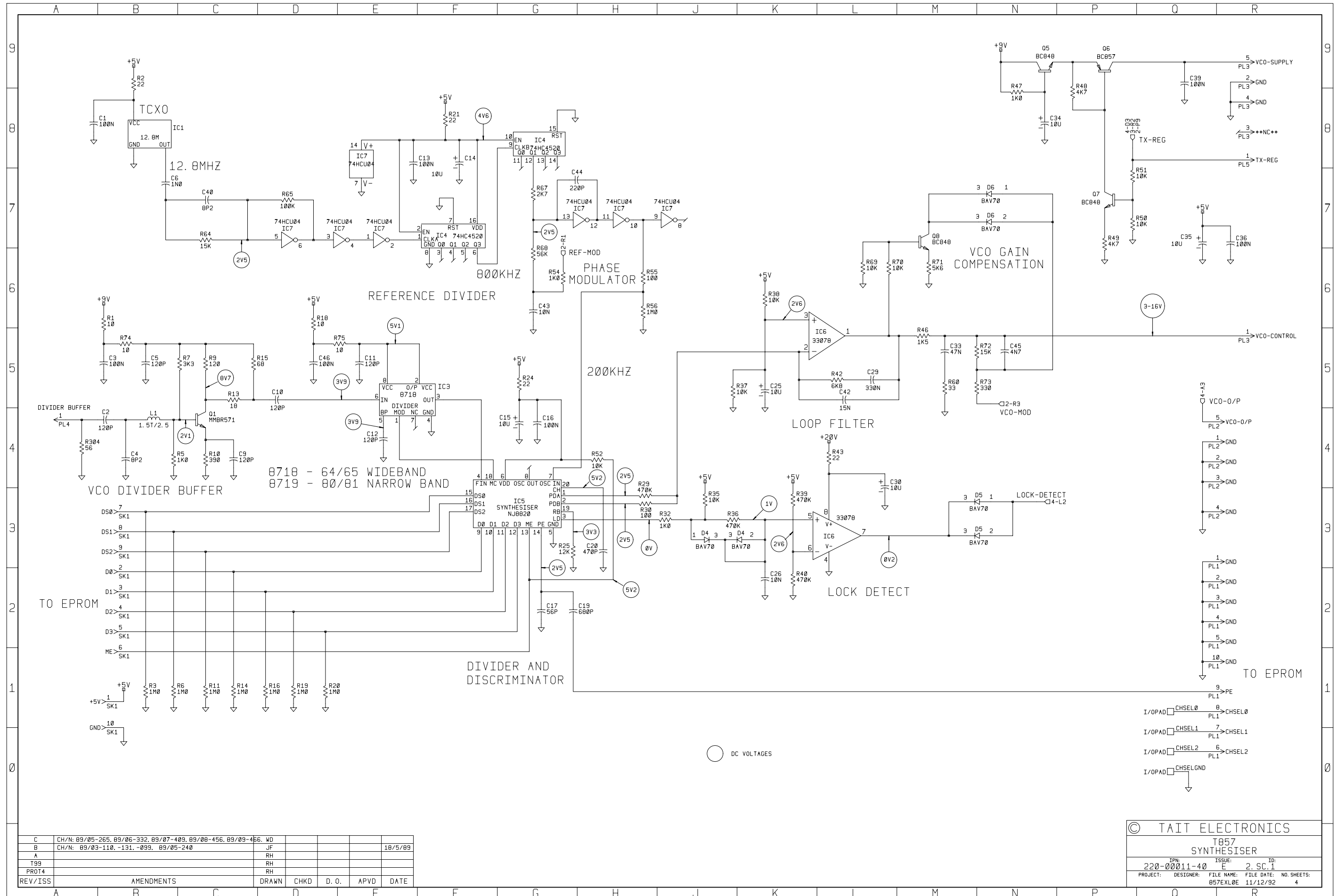
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T857 PCB Layout  
Bottom Side  
220-01140-00



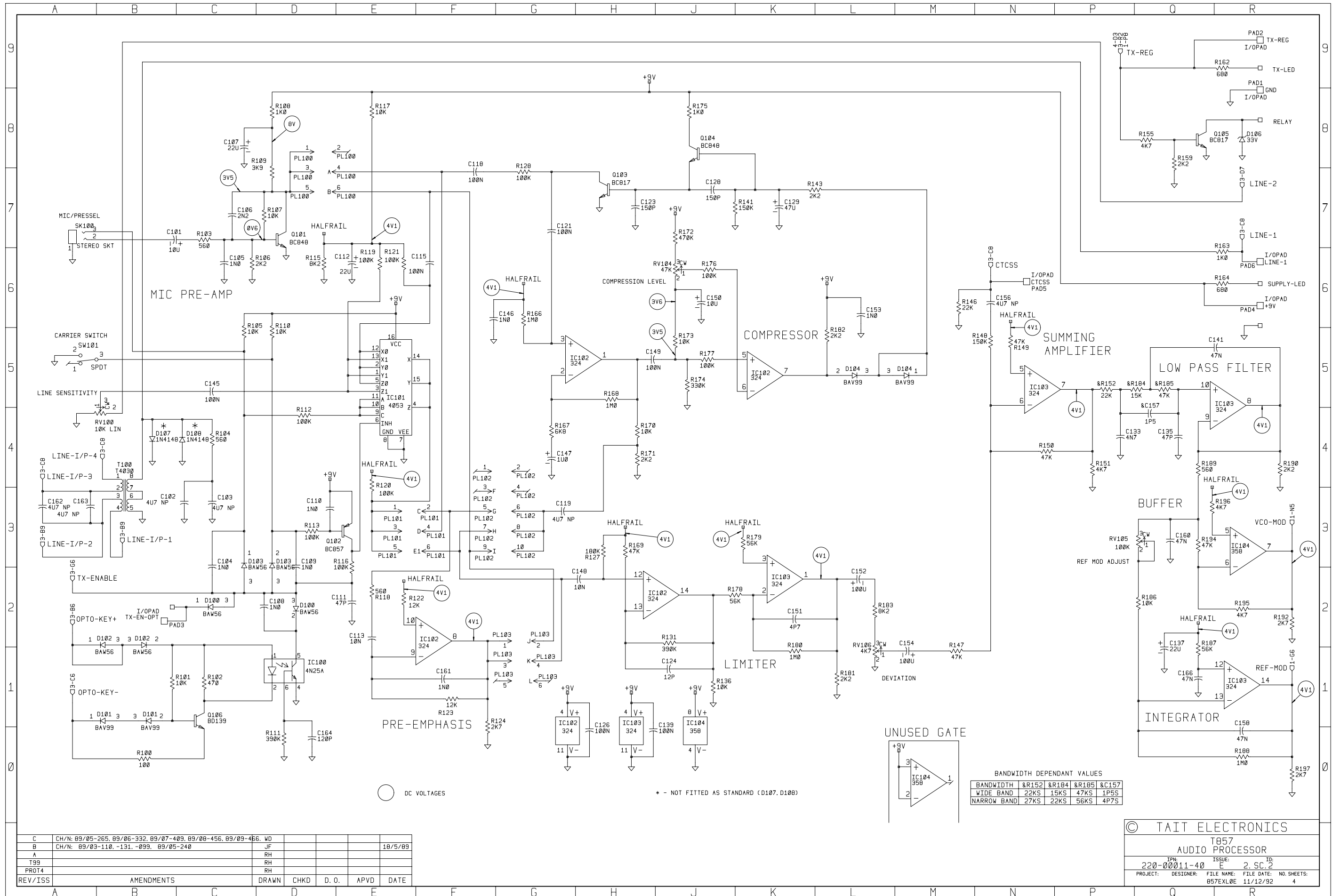
T857 Test Points & Options  
Top Side  
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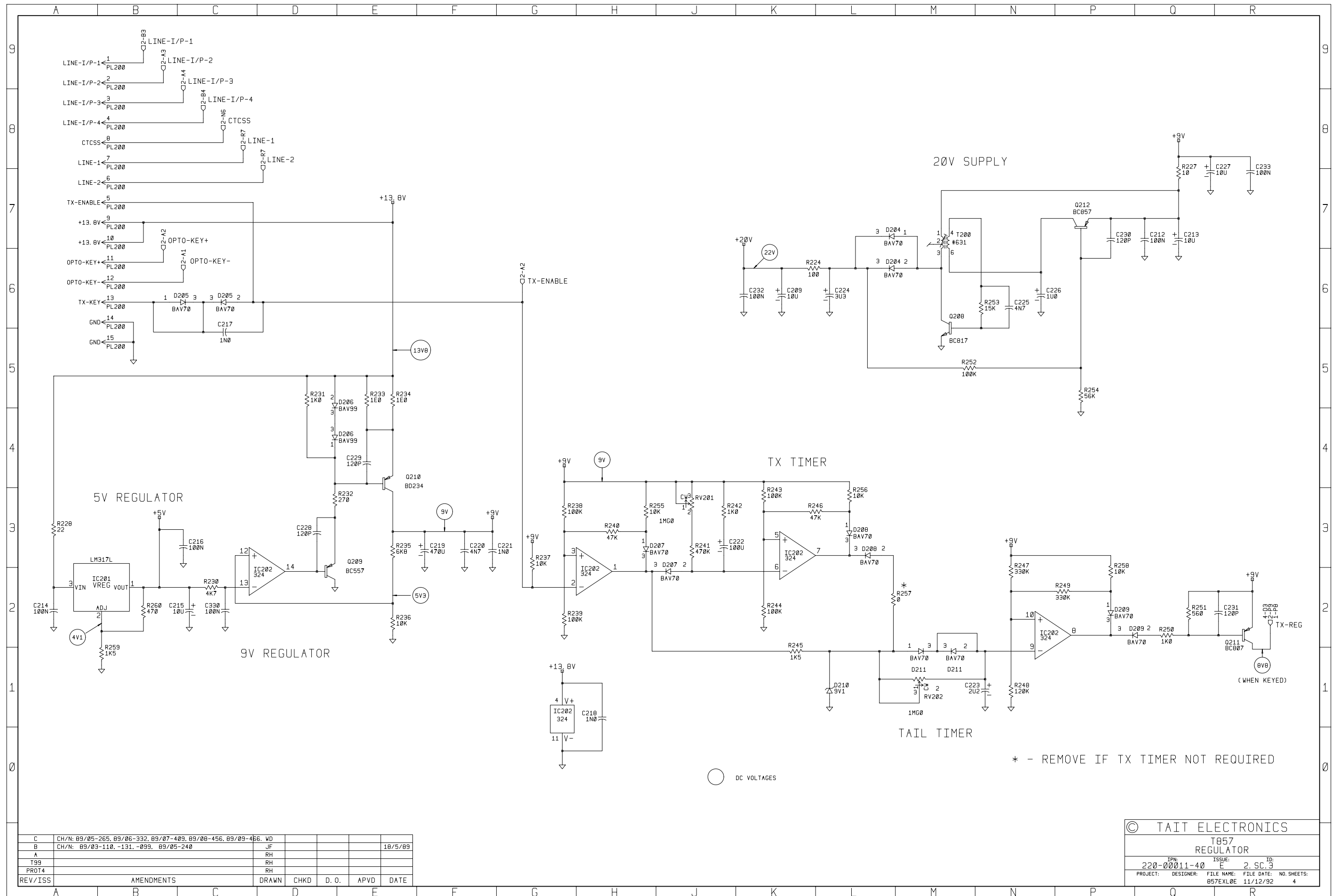
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B	CH/N: 89/03-110, -131, -099, 89/05-240				10/5/89
A		JF			
T99		RH			
PROT4		RH			
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD
					DATE

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T857 SYNTHESISER	
IPN: 220-00011-40	ISSUE: 2, SC. 1
PROJECT: DESIGNER:	FILE NAME: FILE DATE: NO. SHEETS: 4



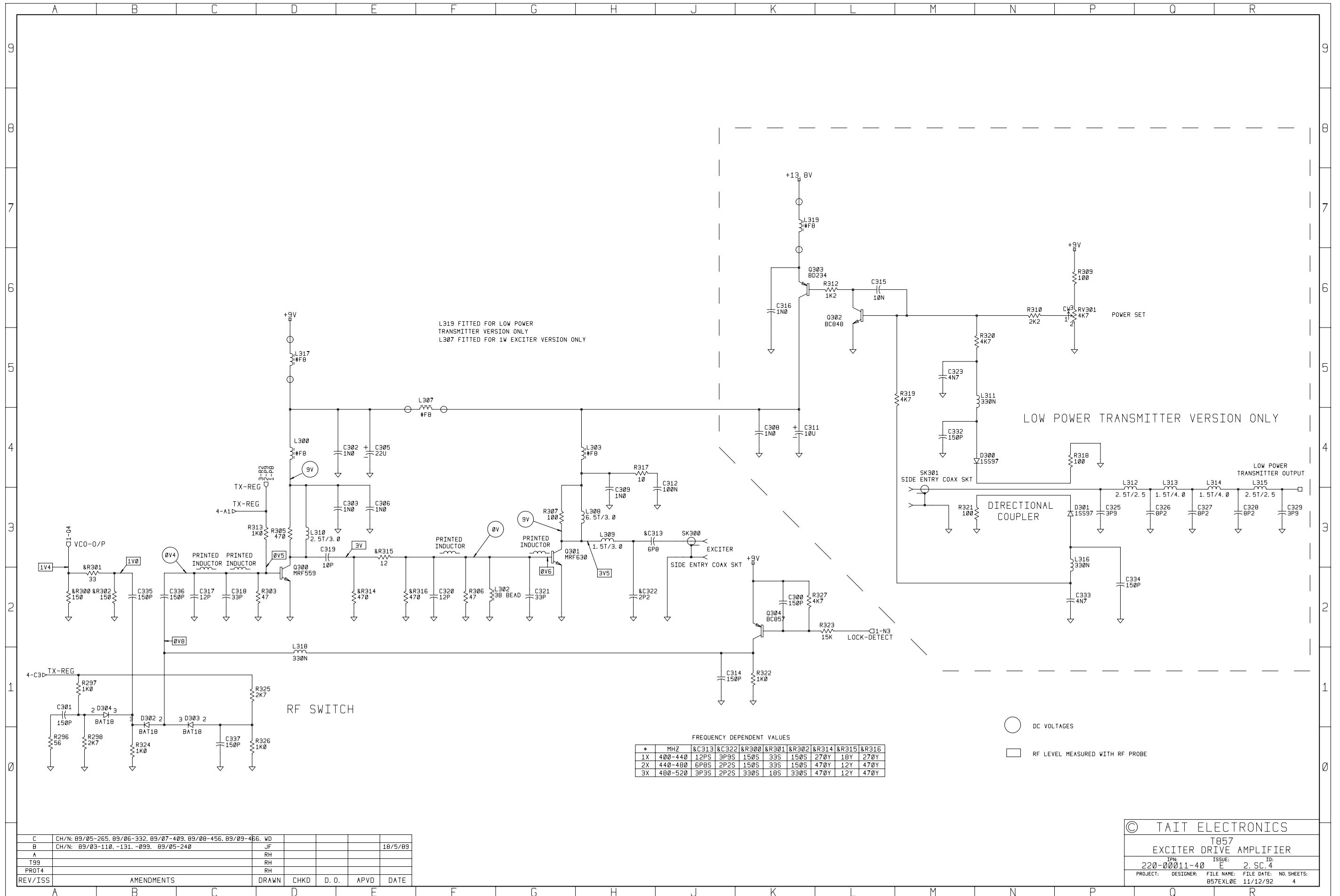
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B	CH/N: 89/03-110, -131, -099, 89/05-240	RH			
A		RH			
T99		RH			
PROT4		RH			
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD DATE





C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-456, WD				
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF			10/5/89
A		RH			
T99		RH			
PROT4		RH			
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD
					DATE

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T857 REGULATOR			
IPN: 220-00011-40	ISSUE: E	2	SC: 3
PROJECT: 057EXL0E	DESIGNER: FILE NAME:	FILE DATE: 11/12/92	NO. SHEETS: 4



C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-466, WD					
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF				18/5/89
A		RH				
T99		RH				
PROT4		RH				
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE

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T857  
EXCITER DRIVE AMPLIFIER

220-0011-40

PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS: 4

## T857 Parts List (IPN 220-01140-01)

**How To Use This Parts List**

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped in alphabetical order and then in numerical order within each group. Each component entry comprises three or four columns: the circuit reference, variant (if applicable), IPN and description. A number in the variant column indicates that this is a variant component which is fitted only to the product type listed.

The miscellaneous and mechanical section lists the variant and common parts in IPN order.

**Parts List Amendments**

There were no amendments to the parts list at the time of publication.

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C1		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C147		020-07100-52	CAP ELECT AI RDL 1M 50V 5X11MM
C2		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C148		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V
C3		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C149		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C4		015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	C150		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C5		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C151		015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V
C6		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C152		020-09100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C9		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C153		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C10		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C154		020-09100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C11		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C156		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C12		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C157	NB	015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V
C13		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	&C157	WB	015-21150-01	CAP CER 0805 CHIP 1P5 +/-0.25P NPO 50V
C14		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C158		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C15		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C160		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C16		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C161		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C17		015-22560-01	CAP CER 0805 CHIP 56P 5% NPO 50V	C162		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C19		015-23680-08	CAP CER 0805 CHIP 680P 10% X7R 50V	C163		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C20		015-23470-08	CAP CER 0805 CHIP 470P 10% X7R 50V	C164		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C25		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C166		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C26		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	C209		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C29		022-06330-03	CAP METAL POLYES 330N 10% 50V 5MM L/S	C212		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C30		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C213		025-08100-02	CAP TANT BEAD 10M 10% 16V
C33		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V	C214		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C34		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C215		025-08100-02	CAP TANT BEAD 10M 10% 16V
C35		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C216		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C36		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C217		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C39		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C218		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C40		015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	C219		020-09470-07	CAP 470M 16V 20% ELEC VERT 8*20 3.5MM L/S
C42		015-25150-08	CAP CER 0805 CHIP 15N 10% X7R 50V	C220		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
C43		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	C221		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C44		015-23220-01	CAP CER 0805 CHIP 220P 5% NPO 50V	C222		020-09100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C45		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V	C223		020-07220-02	CAP ELECT RADL 2M2 50V 5X11MM 5MM L/S
C46		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C224		025-07330-01	CAP TANT BEAD 3M3 35V
C101		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C225		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
C102		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C226		020-07100-52	CAP ELECT AI RDL 1M 50V 5X11MM
C103		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C227		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C104		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C228		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C105		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C229		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C106		015-24220-08	CAP CER 0805 CHIP 2N2 10% X7R 50V	C230		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C107		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S	C231		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C108		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C232		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C109		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C233		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C110		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C300		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V
C111		015-22470-01	CAP CER 0805 CHIP 47P 5% NPO 50V	C301		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V
C112		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S	C302		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C113		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	C303		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C115		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C305		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S
C118		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C306		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C119		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C309		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C121		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C312		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C123		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	#C313	LOW	015-22220-01	CAP CER 0805 CHIP 2P2 +/-0.25P NPO 50V
C124		015-22120-01	CAP CER 0805 CHIP 12P +/-0.25P NPO 50V	#C313	MID	015-22150-01	CAP CER 0805 CHIP 15P 5% NPO 50V
C126		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	#C313	HI	015-22150-01	CAP CER 0805 CHIP 15P 5% NPO 50V
C128		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	C314		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V
C129		020-08470-08	CAP ELECT AI RDL 47M 16V 6X11MM	C317		015-22120-01	CAP CER 0805 CHIP 12P 5% NPO 50V
C133		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V	C318		015-22330-01	CAP CER 0805 CHIP 32P 5% NPO 50V
C135		015-22470-01	CAP CER 0805 CHIP 47P 5% NPO 50V	C319		015-22100-01	CAP CER 0805 CHIP 10P 5% NPO 50V
C137		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S	C320		015-22120-01	CAP CER 0805 CHIP 12P +/-0.25P NPO 50V
C139		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C321		015-22330-01	CAP CER 0805 CHIP 33P 5% NPO 50V
C141		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V	#C322	LOW		NOT FITTED
C145		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	#C322	MID	015-21220-01	CAP CER 0805 CHIP 2P2 +/-0.25P NPO 50V
C146		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	#C322	HI	015-21220-01	CAP CER 0805 CHIP 2P2 +/-0.25P NPO 50V



Ref	Var	IPN	Description	Ref	Var	IPN	Description
R175		036-14100-00	RES M/F 0805 CHIP 1K 5%	NOTE:	LOW		= 400-440MHZ
R176		036-16100-00	RES M/F 0805 CHIP 100K 5%		MID		= 440-480MHZ
R177		036-16100-00	RES M/F 0805 CHIP 100K 5%		HI		= 480-520MHZ
R178		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R179		036-15560-00	RES M/F 0805 CHIP 56K 5%		NB		= 2.5KHZ DEVIATION
R180		036-17100-00	RES M/F 0805 CHIP 1M 5%		WB		= 5KHZ DEVIATION
R181		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R182		036-14220-00	RES M/F 0805 CHIP 2K2 5%		1PPM		= 1PPM TCXO
R183		036-14820-00	RES M/F 0805 CHIP 8K2 5%		2PPM		= 2PPM TCXO
&R184	NB	036-15220-00	RES M/F 0805 CHIP 22K 5%		2.5PPM		= 2.5PPM TCXO
&R184	WB	036-15150-00	RES M/F 0805 CHIP 15K 5%				
&R185	NB	036-15560-00	RES M/F 0805 CHIP 56K 5%				
&R185	WB	036-15470-00	RES M/F 0805 CHIP 47K 5%				
R186		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R187		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R188		036-17100-00	RES M/F 0805 CHIP 1M 5%				
R189		036-13560-00	RES M/F 0805 CHIP 560E 5%				
R190		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R192		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
R194		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R195		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R196		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R197		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
RV201		042-07100-06	RES PRESET 1M CARBON 6MM FLAT				
RV202		042-07100-06	RES PRESET 1M CARBON 6MM FLAT				
R224		036-13100-00	RES M/F 0805 CHIP 100E 5%				
R227		036-12100-00	RES M/F 0805 CHIP 10E 5%				
R228		036-12220-00	RES M/F 0805 CHIP 22E 5%				
R230		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R231		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R232		032-33270-00	RES M/F PWR 270E 5% 1W 12X4.5MM				
R233		032-31100-00	RES M/F PWR 1E0 5% 1W 12X4.5MM				
R234		032-31100-00	RES M/F PWR 1E0 5% 1W 12X4.5MM				
R235		036-14680-00	RES M/F 0805 CHIP 6K8 5%				
R236		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R237		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R238		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R239		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R240		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R241		036-16470-00	RES M/F 0805 CHIP 470K 5%				
R242		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R243		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R244		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R245		036-14150-00	RES M/F 0805 CHIP 1K5 5%				
R246		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R247		036-16330-00	RES M/F 0805 CHIP 330K 5%				
R248		036-16120-00	RES M/F 0805 CHIP 120K 5%				
R249		036-16330-00	RES M/F 0805 CHIP 330K 5%				
R250		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R251		036-13560-00	RES M/F 0805 CHIP 560E 5%				
R252		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R253		036-15150-00	RES M/F 0805 CHIP 15K 5%				
R254		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R255		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R256		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R257		036-10000-00	RES M/F 0805 CHIP ZERO OHM				
R258		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R259		036-14150-00	RES M/F 0805 CHIP 1K5 5%				
R260		036-13470-00	RES M/F 0805 CHIP 470E 5%				
R296		036-12560-00	RES M/F 0805 CHIP 56E 5%				
R297		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R298		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
R300		036-13330-00	RES M/F 0805 CHIP 330E 5%				
R301		036-12180-00	RES M/F 0805 CHIP 18E 5%				
R302		036-13330-00	RES M/F 0805 CHIP 330E 5%				
R303		036-12470-00	RES M/F 0805 CHIP 47E 5%				
R304		036-12560-00	RES M/F 0805 CHIP 56E 5%				
R305		036-13470-00	RES M/F 0805 CHIP 470E 5%				
R306		036-12470-00	RES M/F 0805 CHIP 47E 5%				
R307		032-33100-10	RES M/F PWR 100E 5% 2W 12X4.5MM NON PREF				
R312		036-13680-00	RES M/F 0805 CHIP 680E 5%				
R313		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R314		030-03270-10	RES FILM AI 270E 5% 0.4W 4X1.6MM				
R315		030-02180-10	RES FILM AI 18E 5% 0.4W 4X1.6MM				
R316		030-03270-10	RES FILM AI 270E 5% 0.4W 4X1.6MM				
R317		036-12100-00	RES M/F 0805 CHIP 10E 5%				
R322		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R323		036-15150-00	RES M/F 0805 CHIP 15K 5%				
R324		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R325		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
R326		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R327		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
SK1		240-04020-57	SKT 10 WAY 1ROW PCB MTG TOP ENTRY				
SK100		240-02020-05	SKT STEREO PHONE JACK PCB MTG				
SK300		240-02100-44	SKT COAX MINI JACK PCB MTG ANGLED				
SW101		232-00010-26	SWITCH PUSH SPDT RT ANGLE PCB MTG NO BU				
T100		053-00010-17	XFMR T4030 LINE MATCH POTCORE				
T200		050-00016-31	COIL TAIT NO 631 455KHZ IF 7MM CAN				

(REFER TO PART C, SECTION 1.3)



## T857 Mechanical &amp; Miscellaneous Parts (220-01140-01)

IPN	Description	IPN	Description
012-04150-01	CAP CER F/THRU 1N5 NO LEAD C1-C15 On 15 Way D Range.	319-01152-00	SHIELD A3M2250 F/THRU MTG T857 Attached To D Range Plug x1.
051-00006-02	SOLDER SPRING 1.3MM A4M1877 LED1 x2, LED2 x2.	345-00040-06	SCREW M3*8MM PAN POZI ST BZ For Final Installation Kit x2.
065-00010-13	BEAD FERRITE 7D 1.9*0.9*3.8MM STACK POLE 15 Way D Range x15.	345-00040-08	SCREW M3*12MM PAN POZI ST BZ D Range Blanking Cover Mtg x2.
201-00030-02	WIRE #1 T/C WIRE 7/0.2MM PVC RED 2 x70mm for LEDs.	345-00040-09	SCREW M3*6MM CSK POZI TRUNCATED HEAD ST BZ For Final Installation Kit x2.
201-00030-10	WIRE #1 T/C WIRE 7/0.2MM PVC BLACK 2 x70mm for LEDs.	345-00040-10	SCREW M3*6MM PAN POZI ST BZ Guide Skt to Float Plate x4, Rail x4.
206-00010-11	CABLE COAX 50 OHM RG316-U PTFE 140mm SK300/Front Panel x1, 90mm Final Inst Kit x1.	345-00040-20	SCREW M3*8MM BUTTON SKT HD BLACK ZINC PHOS Front Panel Mtg x4.
220-01140-01	PCB T857 MAIN BD	349-00020-31	SCREW TAPTITE M3X10MM PAN POZI BZ N Connector Cover x4.
232-00020-26	BUTTON PUSH FOR 232-00010-26 SWITCH For SW101.	349-00020-32	SCREW TAPTITE M3*8MM PAN POZI BZ PCB Mounting x8.
240-00010-55	PLUG 15 WAY D RANGE WIRE WRAP PINS PNL MTG PL200	349-00020-43	SCREW TAPTITE M4*12MM PAN POZI BZ Top Cover Mtg x14.
240-00100-43	PLUG COAX MINI PIN PLUG CRIMP 1.5D COAX 140mm Coax Cable to SK300 x1.	349-00020-45	SCREW TAPTITE M4*20MM PAN POZI BZ Bottom Cover Mtg x14.
240-00100-46	PLUG COAX PNL JACK SUHNER 24 SMC50-2-10C 140mm Coax Cable to Front Panel x1.	352-00010-08	NUT M3 COLD FORM HEX ST BZ D Range x2, D Range Cover x2, Vco Mtg x2.
240-02010-54	SKT 15WAY DRANGE PNL MTG 105 DEG C Guide Rail Assembly Component, Part of Installation Kit x1	352-00010-29	NUT M4 NYLOC HEX Handle x2.
240-02100-46	SKT COAX ELBOW SUHNER 16SMC50-2-10C 90mm Coax Cable For Exciter/PA Connection x2	353-00010-10	WASHER M3 FLAT 7MM*0.6MM ST BZ Float Plate x4.
240-04020-62	SKT 2 WAY RECEP TL SHORTING LINK For PLS100, 101, 102, 103 & 201 x1 Each.	353-00010-12	WASHER M3 SPRING BZ D Range x2, D Range Cover x2.
240-04020-65	SKT JACK PIN 1.3MM PCB MTG 64 WAY SIL STRIP For SJ2-1, SJ3-1, SJ4-1 TO SJ4-5, SJ5-1 TO SJ5-5	362-00010-23	GASKET SIL INSULATING TO-220 CLIP MTD Q210 x1.
303-11168-00	CHASSIS HSINK PNTD CMLPT A1M2364 800 SERIES	362-00010-33	GROMMET LED MTG 3MM LO CURRENT LEDS
303-23055-00	COVER A4M955 N CONN HOLE T857 Blanking Plate On Rear For N Connector x1.	365-00011-53	LABEL WHITE RW2365/1 104*37MM SPECIAL ADHSIVE Item Description On Outside Of Box x1.
303-23118-00	COVER A3M2247 D RANGE HOLE T855/7 Blanking Plate On Rear For Extra D Range Connector x1.	365-00100-03	LABEL BLANK 10.8*30MM S/A METLSD POLYES
303-50074-00	CLIP A3M2246 SPRING XSTR CLAMP T857 Q210 x1.	365-00100-20	LABEL WHITE S/A 28*11MM QUIKSTIK RW718/4 Rev No x1, EPROM x1, T100 x1, 'Test Report Inside' x1.
303-50078-00	CLIP A4M2630 0.1MM SPRIWIRE CABLE CLAMP T800 For Securing 140mm Coax Cable x1	365-01391-01	LABEL 30*10.8MM TAMPERMARK VOID MATT FCC Rules Pt 15 x1, FCC ID x1, Aust DOTC Cert x1, Ser No x1, Canadian DOC x1.
306-01010-00	FERRULE A4M948 HANDLE FXD EQUIP For Handle x2.	365-01500-00	LABEL 24*12MM CE CONFORMITY
308-01007-00	HANDLE A4M949 FXD EQUIP	399-00010-51	BAG PLASTIC 75*100MM
312-01052-00	LID TOP PNTD COMPL A1M2364 800 SERIES	400-00020-05	SLEEVING 1.5MM SIL RUBBER
312-01053-00	LID BOTTOM PNTD COMPL A1M2364 800 SERIES	410-01081-00	CRTN T800 MODULE KIWI REF22860 PRTD
316-06392-00	PNL FRT COMPL T857 EX A3M2218/2	410-01082-00	CRTN 10 T800 KIWI REF24417 423X410X360
316-85015-00	PIN A4M775 LOCATING D RANGE For Securing D Range x2.		
316-85099-00	PLATE FLOAT A2M2248 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
316-85100-00	PLATE FRT A2M2249 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
318-01014-00	RAIL A2M2214 FOR 800 SERIES FXD EQUIP Guide Rail Assembly Component, Part of Installation Kit x2		





## T857 Grid Reference Index (IPN 220-01140-01)

**How To Use This Grid Reference Index**

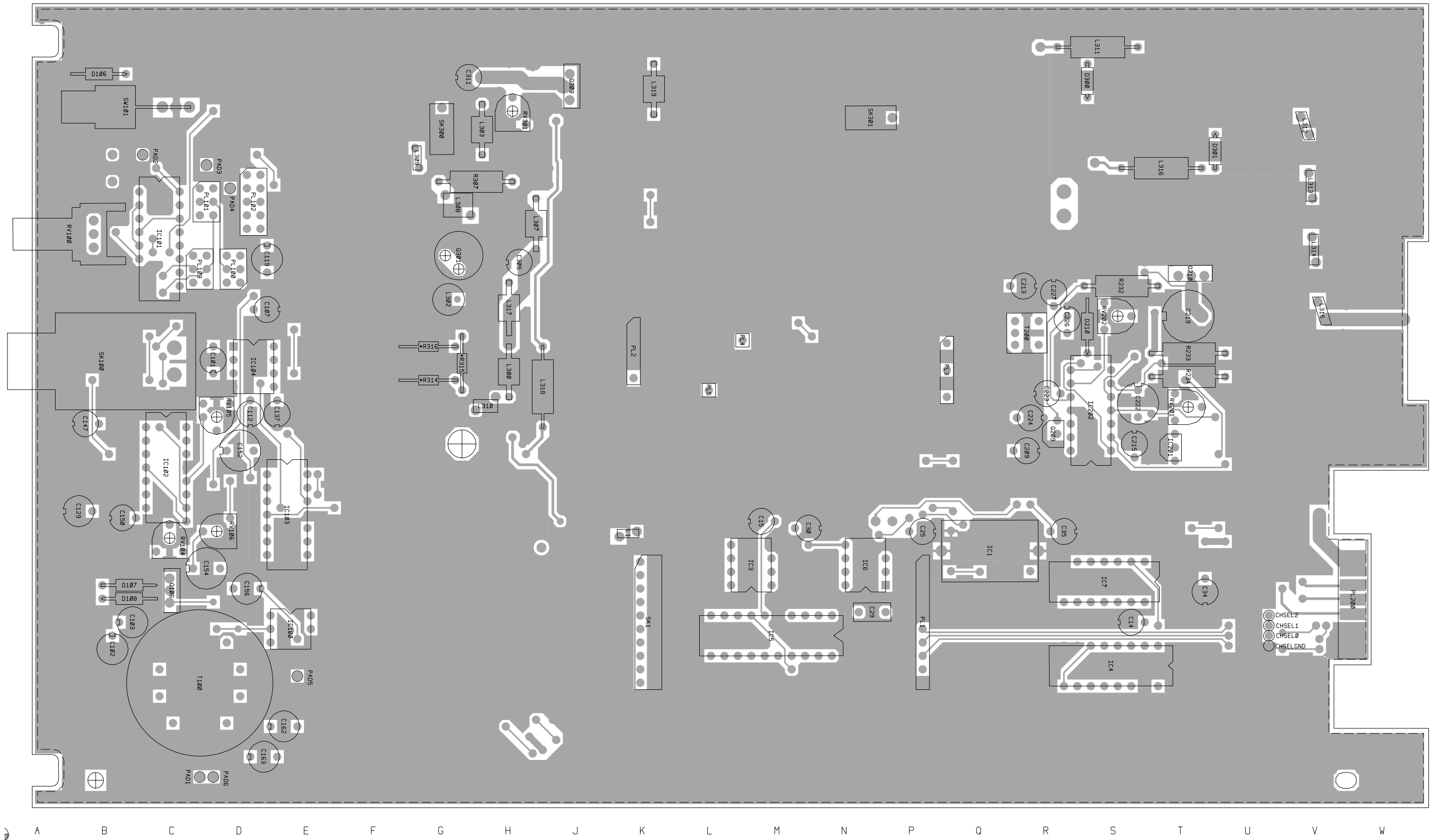
The first digit in the PCB layout reference is a "1" or "2", indicating the top or bottom side layout respectively, and the last two characters give the location of the component on that diagram.

The first digit in the circuit diagram reference is the sheet number, and the last two characters give the location of the component on that sheet.

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
CHSLGND	1:U3	1-Q0	C135	2:E5	2-Q4	C320	2:G8	4-F2			1-J7
CHSELO	1:U3	1-Q1	C137	1:E7	2-Q1	C321	2:G9	4-G2	IC100	1:E4	2-D1
CHSEL1	1:U4	1-Q0	C139	2:D5	2-H0	#C322	2:F11		IC101	1:C10	2-E4
CHSEL2	1:U4	1-Q0	C141	2:E4	2-R5	C330	2:S7	3-C2	IC102	1:C7	2-G5
C1	2:R5	1-A8	C145	2:B9	2-C5	C335	2:J6	4-B2			2-K5
C2	2:K5	1-B4	C146	2:B6	2-F6	C336	2:H6	4-B2			2-F1
C3	2:L5	1-B5	C147	1:B7	2-G4	C337	2:J5	4-C0			2-H2
C4	2:K5	1-B4	C148	2:C7	2-H2	D4	2:N5	1-J3			2-G0
C5	2:L5	1-B5	C149	2:C6	2-H5			1-K3	IC103	1:D6	2-K2
C6	2:Q4	1-B7	C150	1:B5	2-J6	D5	2:N4	1-M3			2-N4
C9	2:L5	1-C4	C151	2:E6	2-K2			1-M3			2-R4
C10	2:L5	1-D5	C152	1:D6	2-L2	D6	2:P7	1-N7			2-R1
C11	2:M4	1-E5	C153	2:C4	2-L6			1-N7			2-H0
C12	2:M5	1-E4	C154	1:D4	2-M1	D100	2:D11	2-C2	IC104	1:D8	2-R2
C13	2:S4	1-E8	C156	1:D4	2-N6			2-D2			2-M0
C14	1:S4	1-F8	&C157	2:E4	2-Q4	D101	2:C4	2-B1			2-J0
C15	1:M5	1-G4	C158	2:E6	2-R0			2-B1	IC201	1:T6	3-A2
C16	2:M4	1-G4	C160	2:C7	2-Q3	D102	2:D4	2-B2	IC202	1:S6	3-C2
C17	2:M3	1-G2	C161	2:D5	2-F1			2-B2			3-H2
C19	2:P3	1-G2	C162	1:E2	2-A3	D103	2:D11	2-C3			3-K2
C20	2:N3	1-H3	C163	1:D2	2-A3			2-D3			3-N1
C25	1:P5	1-K5	C164	2:E4	2-D0	D104	2:B5	2-M5			3-G1
C26	2:N5	1-K2	C166	2:E6	2-Q1			2-L5	L1	1:K5	1-B4
C29	1:N4	1-L5	C209	1:R6	3-K6	D106	1:B12	2-R8	L300	1:H7	4-D4
C30	1:N5	1-L4	C212	2:R9	3-Q7	D107	1:C4	2-B4	L302	1:G8	4-F2
C33	2:P8	1-M5	C213	1:R9	3-Q7	D108	1:B4	2-C4	L303	1:H11	4-H4
C34	1:T4	1-N8	C214	2:T6	3-A2	D204	2:R7	3-L7	L307	1:H10	4-G4
C35	1:R5	1-Q7	C215	1:S6	3-C2			3-L6	L308	1:G10	4-H3
C36	2:R5	1-R7	C216	2:T6	3-C3	D205	2:V5	3-C6	#L309	1:G11	4-H3
C39	2:Q7	1-Q9	C217	2:V5	3-C5			3-C6	L310	1:H7	4-D3
C40	2:R4	1-C7	C218	2:S7	3-H1	D206	2:U9	3-D4	L317	1:H8	4-D5
C42	2:N4	1-L5	C219	1:T8	3-F3			3-D5	L318	1:J8	4-D1
C43	2:R3	1-G6	C220	2:T8	3-F3	D207	2:S7	3-H3	PAD1	1:C1	2-R8
C44	2:S4	1-H7	C221	2:T8	3-F3			3-J2	PAD2	1:C11	2-R9
C45	2:P8	1-N5	C222	1:S7	3-J3	D208	2:S8	3-L3	PAD3	1:D10	2-B2
C46	2:M5	1-D5	C223	1:R7	3-N1			3-L3	PAD4	1:D10	2-R6
C101	1:D8	2-B7	C224	1:R7	3-L6	D209	2:S9	3-P2	PAD5	1:E3	2-N6
C102	1:B3	2-C3	C225	2:R7	3-N6			3-P2	PAD6	1:D1	2-R6
C103	1:B4	2-C3	C226	1:R8	3-N6	D210	1:S8	3-L1	PL1	1:P5	1-Q1
C104	2:D11	2-C3	C227	1:R9	3-Q7	D211	2:S8	3-M1			1-Q0
C105	2:D8	2-C6	C228	2:R6	3-D3			3-M1			1-Q0
C106	2:D8	2-C7	C229	2:T9	3-E4	D302	2:J7	4-B1			1-Q2
C107	1:D8	2-C8	C230	2:R7	3-P7	D303	2:J6	4-C1			1-Q2
C108	2:D11	2-D2	C231	2:T8	3-R2	D304	2:J7	4-B1			1-Q2
C109	2:C11	2-D3	C232	2:R6	3-K6	D305	1:H9	4-F4			1-Q2
C110	2:C11	2-D3	C233	2:R9	3-R7	D306	1:H10	4-F4			1-Q3
C111	2:D11	2-E2	C300	2:J11	4-K2	=IC1	1:R5	1-B8			1-Q1
C112	1:D7	2-E6	C301	2:H7	4-A1	&IC3	1:M4	1-E4			1-Q1
C113	2:D9	2-E2	C302	2:H9	4-E4	IC4	1:T3	1-F7	PL2	1:K8	1-Q3
C115	2:D9	2-F6	C303	2:H7	4-E3			1-G8			1-Q4
C118	2:C8	2-F7	C305	1:H9	4-E4	IC5	1:N4	1-F3			1-Q4
C119	1:D9	2-G3	C306	2:H7	4-E3	IC6	1:P4	1-K5			1-Q4
C121	2:B6	2-G7	C309	2:H10	4-H3			1-K3			1-Q4
C123	2:B6	2-H7	C312	2:H10	4-J3	IC7	1:T5	1-E8	PL3	1:Q8	1-R8
C124	2:C6	2-J1	#C313	2:G11	4-H3			1-D7			1-R9
C126	2:B6	2-H0	C314	2:J11	4-J1			1-D7			1-R8
C128	2:B6	2-J7	C317	2:H6	4-C2			1-E7			1-R5
C129	1:B5	2-K7	C318	2:H6	4-C2			1-G7			1-R9
C133	2:E4	2-P4	C319	2:G7	4-D3			1-H7	PL4	1:M8	1-A4

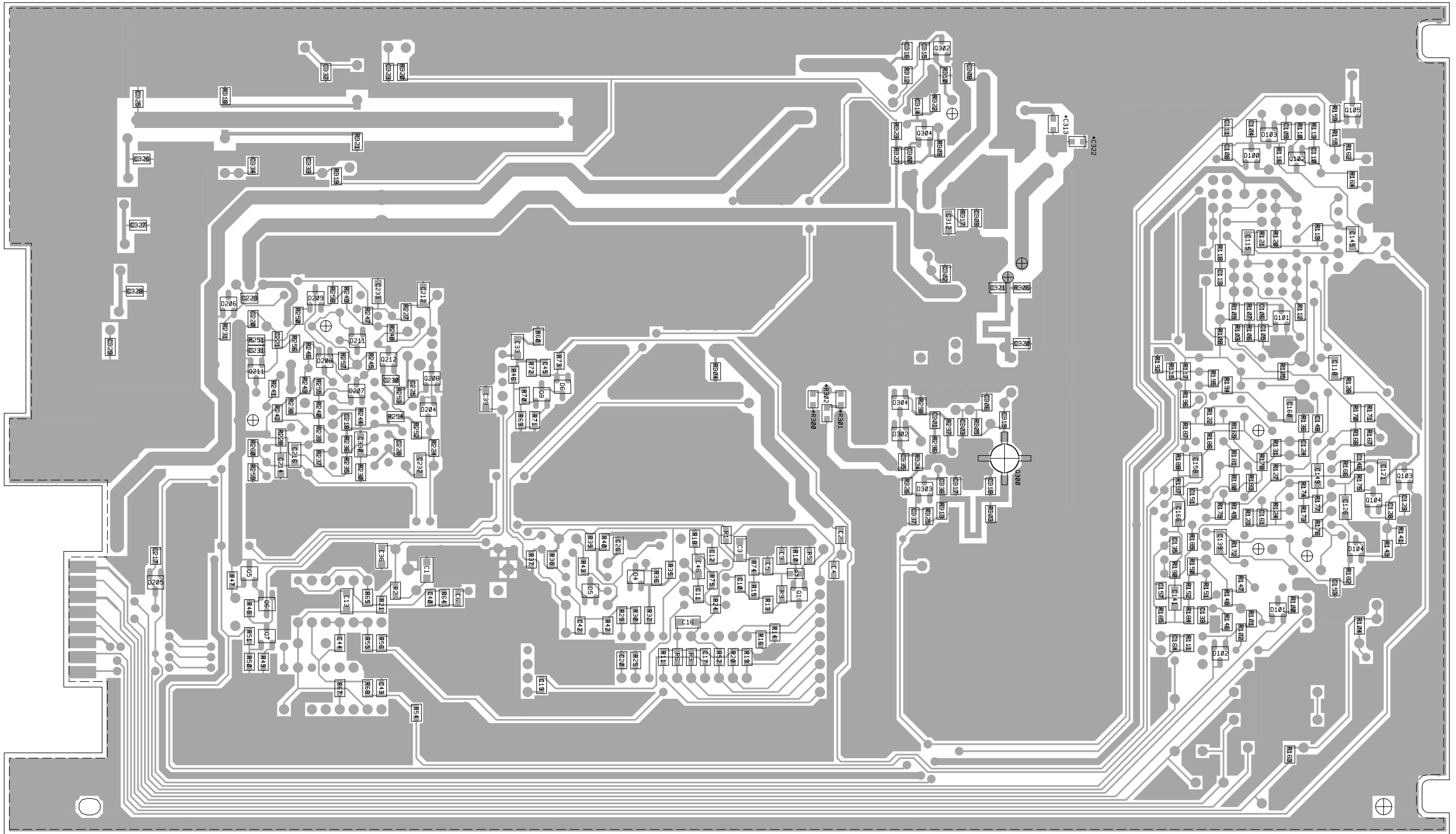
Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
PL5	1:L7	1-R8	R18	2:M5	1-D6	R149	2:D6	2-N5	R297	2:H7	4-A1
PL100	1:D9	2-E8	R19	2:L3	1-D1	R150	2:E5	2-N4	R298	2:J7	4-A0
		2-D8	R20	2:L3	1-D1	R151	2:D4	2-P4	R300	2:K7	4-A2
		2-D7	R21	2:R4	1-F8	&R152	2:E4	2-P5	R301	2:K7	4-A2
		2-D7	R24	2:M4	1-G5	R155	2:C11	2-Q8	R302	2:K7	4-B2
		2-E7	R25	2:N3	1-G3	R159	2:C11	2-Q8	R303	2:H6	4-D2
		2-E7	R29	2:N4	1-H3	R162	2:B11	2-R9	R304	2:M8	1-A4
PL101	1:C10	2-E3	R30	2:N4	1-H3	R163	2:C2	2-R6	R305	2:H7	4-D3
		2-E3	R32	2:M4	1-J3	R164	2:B10	2-R6	R306	2:G9	4-F2
		2-E3	R35	2:M5	1-J3	R166	2:B6	2-G6	R307	1:H10	4-G3
		2-F3	R36	2:M5	1-J3	R167	2:B7	2-G4	R313	2:H6	4-D3
		2-F3	R37	2:P5	1-J5	R168	2:B7	2-H5	R314	1:G7	4-E2
		2-F3	R38	2:P5	1-K6	R169	2:D7	2-H3	R315	1:G7	4-E3
PL102	1:D10	2-G4	R39	2:N5	1-K3	R170	2:B7	2-H4	R316	1:G8	4-E2
		2-F4	R40	2:N5	1-K2	R171	2:B7	2-H4	R317	2:H10	4-H4
		2-F3	R42	2:N4	1-L5	R172	2:D5	2-J7	R322	2:H11	4-K1
		2-G3	R43	2:N5	1-L4	R173	2:C6	2-J5	R323	2:J11	4-L2
		2-G3	R46	2:P8	1-M5	R174	2:C6	2-J5	R324	2:J6	4-B0
		2-G3	R47	2:T5	1-N8	R175	2:B6	2-J8	R325	2:H5	4-C1
		2-F3	R48	2:T4	1-P8	R176	2:C5	2-J6	R326	2:J6	4-C0
		2-F3	R49	2:T3	1-P7	R177	2:C6	2-J5	R327	2:J11	4-K2
		2-F3	R50	2:T3	1-P7	R178	2:D6	2-K2	SK1	1:K5	1-B1
		2-F3	R51	2:T4	1-P7	R179	2:D6	2-K3			1-B3
PL103	1:C9	2-G1	R52	2:L3	1-H4	R180	2:D6	2-K1			1-B3
		2-G1	R54	2:R3	1-G6	R181	2:D6	2-L1			1-B3
		2-G2	R55	2:S4	1-H6	R182	2:B5	2-L5			1-B2
		2-G1	R56	2:R4	1-H6	R183	2:D6	2-L2			1-B2
		2-G2	R60	2:P8	1-M5	&R184	2:E4	2-Q5			1-B2
		2-G1	R64	2:Q4	1-C7	&R185	2:E4	2-Q5			1-B2
PL200	1:W5	3-B7	R65	2:S4	1-D7	R186	2:D7	2-Q2			1-B1
		3-B7	R67	2:S3	1-G7	R187	2:E7	2-Q1			1-B1
		3-B8	R68	2:S3	1-G6	R188	2:E6	2-R0	SK100	1:B8	2-A7
		3-B5	R69	2:P7	1-L6	R189	2:E5	2-Q4	SK300	1:G11	4-J3
		3-B6	R70	2:P7	1-L6	R190	2:E5	2-R4	SW101	1:C11	2-B5
		3-B9	R71	2:P7	1-M6	R192	2:E8	2-R2	T100	1:C3	2-B3
		3-B9	R72	2:P8	1-N5	R194	2:D7	2-Q3	T200	1:R8	3-M7
		3-B8	R73	2:P8	1-N5	R195	2:D7	2-R2			
		3-B8	R74	2:L5	1-B5	R196	2:E7	2-Q3			
		3-B8	R75	2:M5	1-E5	R197	2:E6	2-R0			
		3-B7	R100	2:C4	2-B0	RV201	1:T7	3-J3			
		3-B6	RV100	1:B9	2-B4	RV202	1:S8	3-M1			
		3-B6	R101	2:D4	2-B1	R224	2:R6	3-K6			
		3-B7	R102	2:D4	2-C1	R227	2:R8	3-Q7			
		3-B6	R103	2:D8	2-C7	R228	2:T7	3-A3			
Q1	2:K4	1-C4	R104	2:B4	2-C4	R230	2:S6	3-C2			
Q5	2:T5	1-N9	RV104	1:C5	2-J6	R231	2:U8	3-D5			
Q6	2:T4	1-P9	R105	2:C8	2-C5	R232	1:T9	3-D3			
Q7	2:T4	1-P7	RV105	1:D7	2-Q3	R233	1:U8	3-E5			
Q8	2:P7	1-M7	R106	2:D8	2-C6	R234	1:U7	3-E5			
Q101	2:C8	2-D7	RV106	1:D5	2-L1	R235	2:S6	3-E3			
Q102	2:C11	2-E3	R107	2:D8	2-D7	R236	2:S7	3-E2			
Q103	2:B6	2-H7	R108	2:D8	2-D8	R237	2:S6	3-G3			
Q104	2:B6	2-J8	R109	2:D8	2-D7	R238	2:T7	3-G3			
Q105	2:B11	2-Q8	R110	2:C11	2-D5	R239	2:S7	3-G2			
Q106	1:C4	2-C1	R111	2:E4	2-D0	R240	2:S7	3-H3			
Q208	2:R7	3-M6	R112	2:C8	2-D4	R241	2:T7	3-J3			
Q209	1:R6	3-D2	R113	2:C11	2-D3	R242	2:T7	3-J3			
Q210	1:T9	3-E4	R115	2:E8	2-D6	R243	2:S7	3-K3			
Q211	2:T8	3-R2	R116	2:C11	2-E3	R244	2:S7	3-K2			
Q212	2:R8	3-P7	R117	2:E8	2-E8	R245	2:R8	3-K1			
Q300	2:G6	4-D2	R118	2:D9	2-E2	R246	2:S8	3-L3			
Q301	1:G9	4-G3	R119	2:C10	2-E6	R247	2:S8	3-N2			
Q304	2:J11	4-K2	R120	2:C9	2-E4	R248	2:R8	3-N1			
R1	2:L5	1-B6	R121	2:D9	2-E6	R249	2:S9	3-P2			
R2	2:R4	1-B9	R122	2:D7	2-E2	R250	2:T8	3-Q2			
R3	2:M3	1-B1	R123	2:D5	2-F1	R251	2:T8	3-Q2			
R5	2:K5	1-B4	R124	2:C6	2-F1	R252	2:R7	3-M5			
R6	2:M3	1-B1	R127	2:C6	2-H3	R253	2:R7	3-N6			
R7	2:K5	1-C5	R128	2:B7	2-G7	R254	2:R7	3-P5			
R9	2:L4	1-C5	R131	2:C6	2-J2	R255	2:S7	3-H3			
R10	2:K5	1-C4	R136	2:C7	2-J1	R256	2:T8	3-L3			
R11	2:M3	1-C1	R141	2:B5	2-K7	R257	2:S8	3-L2			
R13	2:L4	1-C5	R143	2:B5	2-L7	R258	2:S9	3-P2			
R14	2:L4	1-C1	R146	2:D4	2-M6	R259	2:T6	3-B1			
R15	2:L4	1-C5	R147	2:D5	2-M1	R260	2:T6	3-B2			
R16	2:L4	1-D1	R148	2:D4	2-N5	R296	2:H7	4-A0			

220-01140-01 D



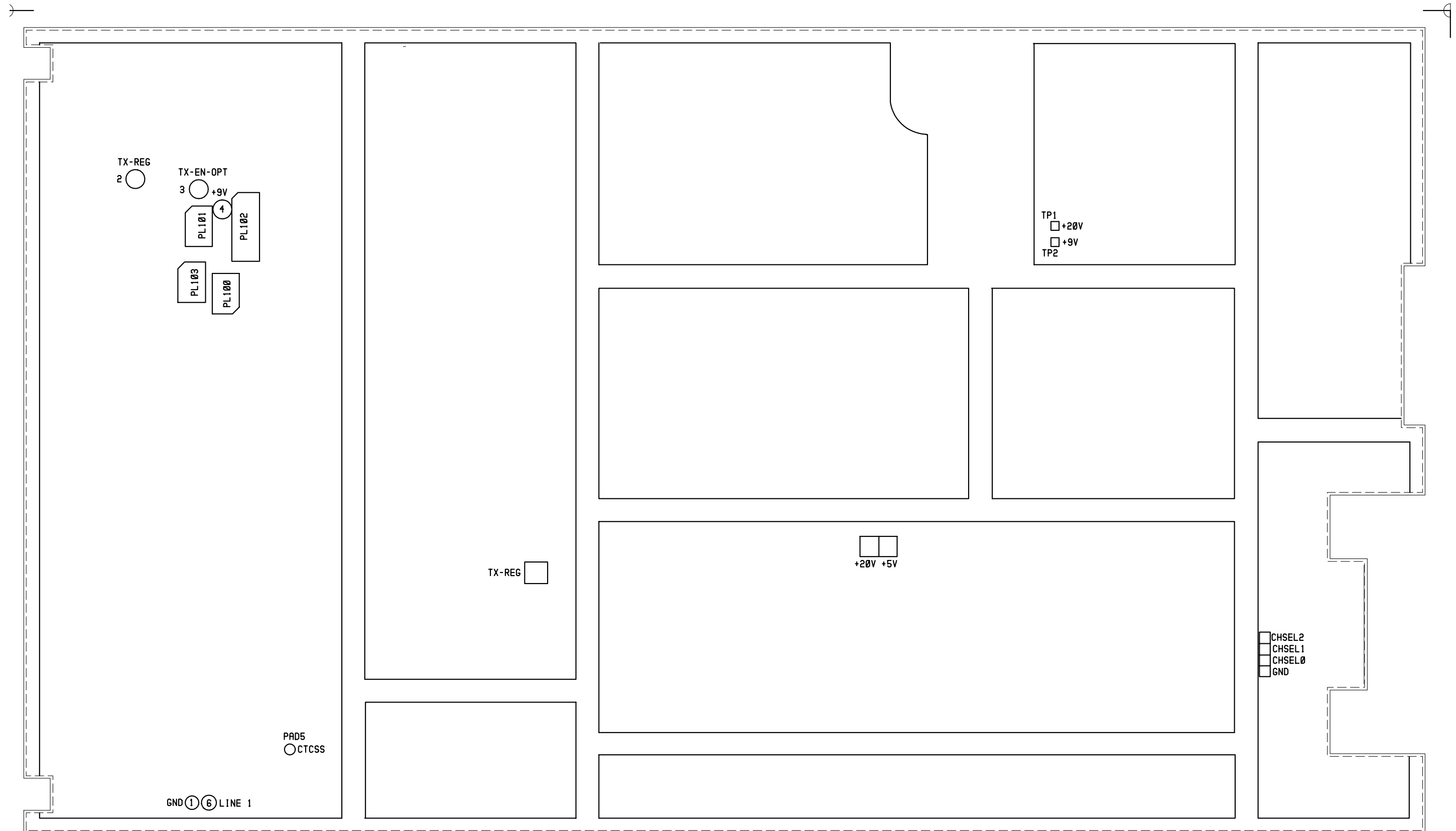
T857 PCB Layout  
 Top Side  
 220-01140-01

220-01140-01D



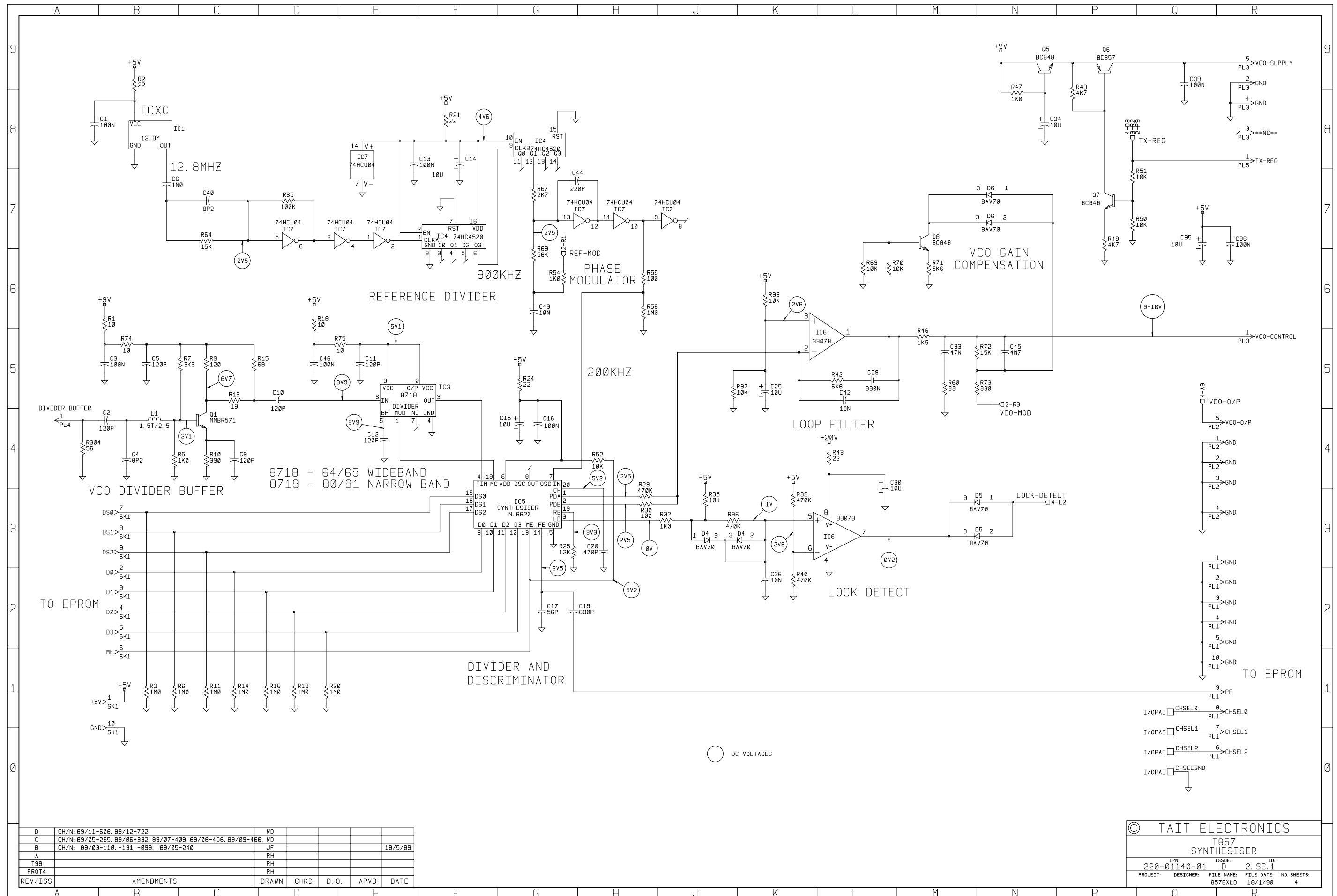
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**T857 PCB Layout  
Bottom Side  
220-01140-01**



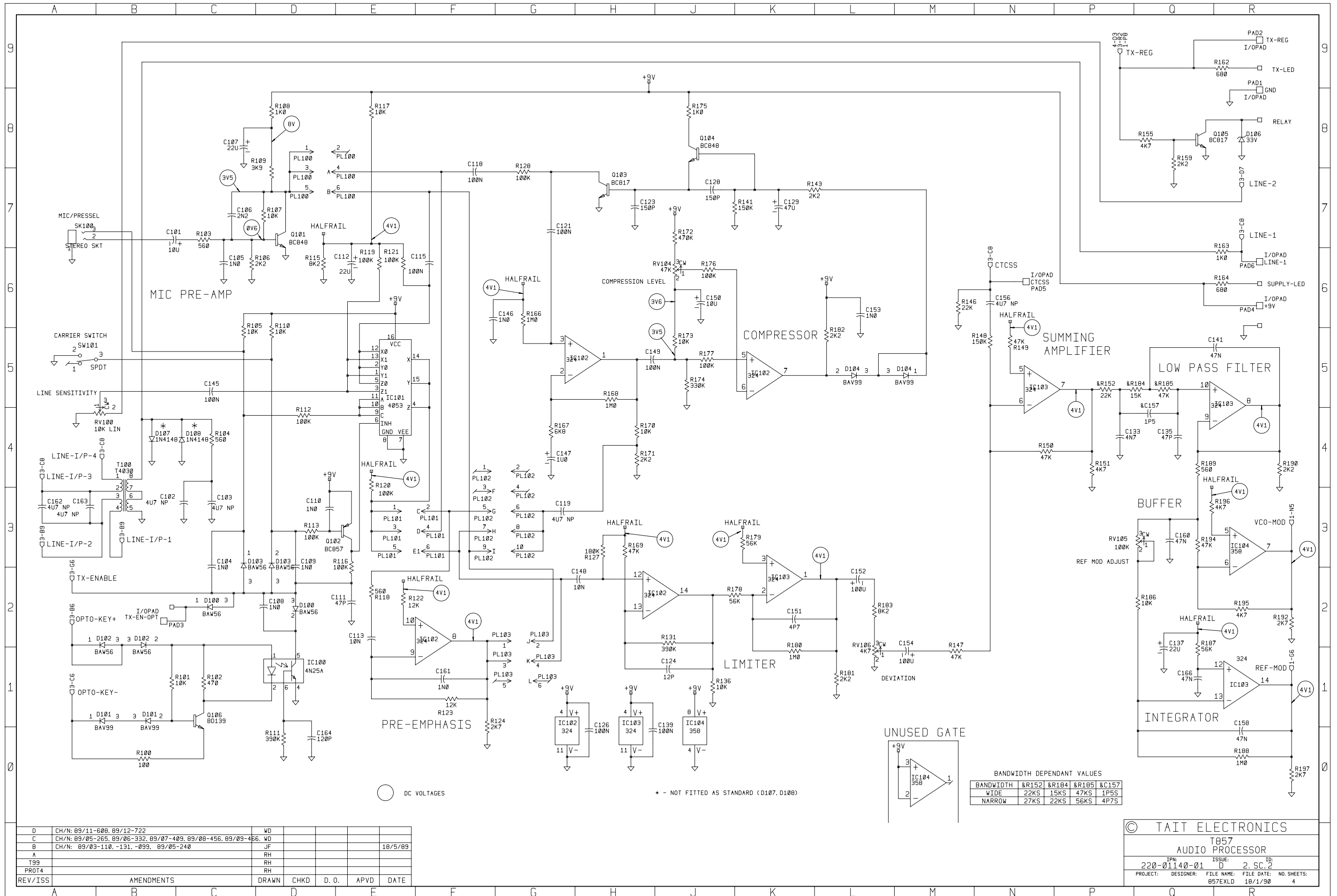
T857 Test Points & Options  
Top Side  
220-01140-01





D	CH/N: 89/11-608, 89/12-722	WD				
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-466	WD			18/5/89	
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF				
A		RH				
T99		RH				
PROT4		RH				
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE

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T857 SYNTHESISER	
IPN: 220-01140-01	ISSUE: D
PROJECT: 220-01140-01	FILE DATE: 18/1/90
DESIGNER: 857EXLD	NO. SHEETS: 4



BANDWIDTH DEPENDANT VALUES

BANDWIDTH	&R152	&R184	&R185	&C157
WIDE	22KS	15KS	47KS	1P55
NARROW	27KS	22KS	56KS	4P75

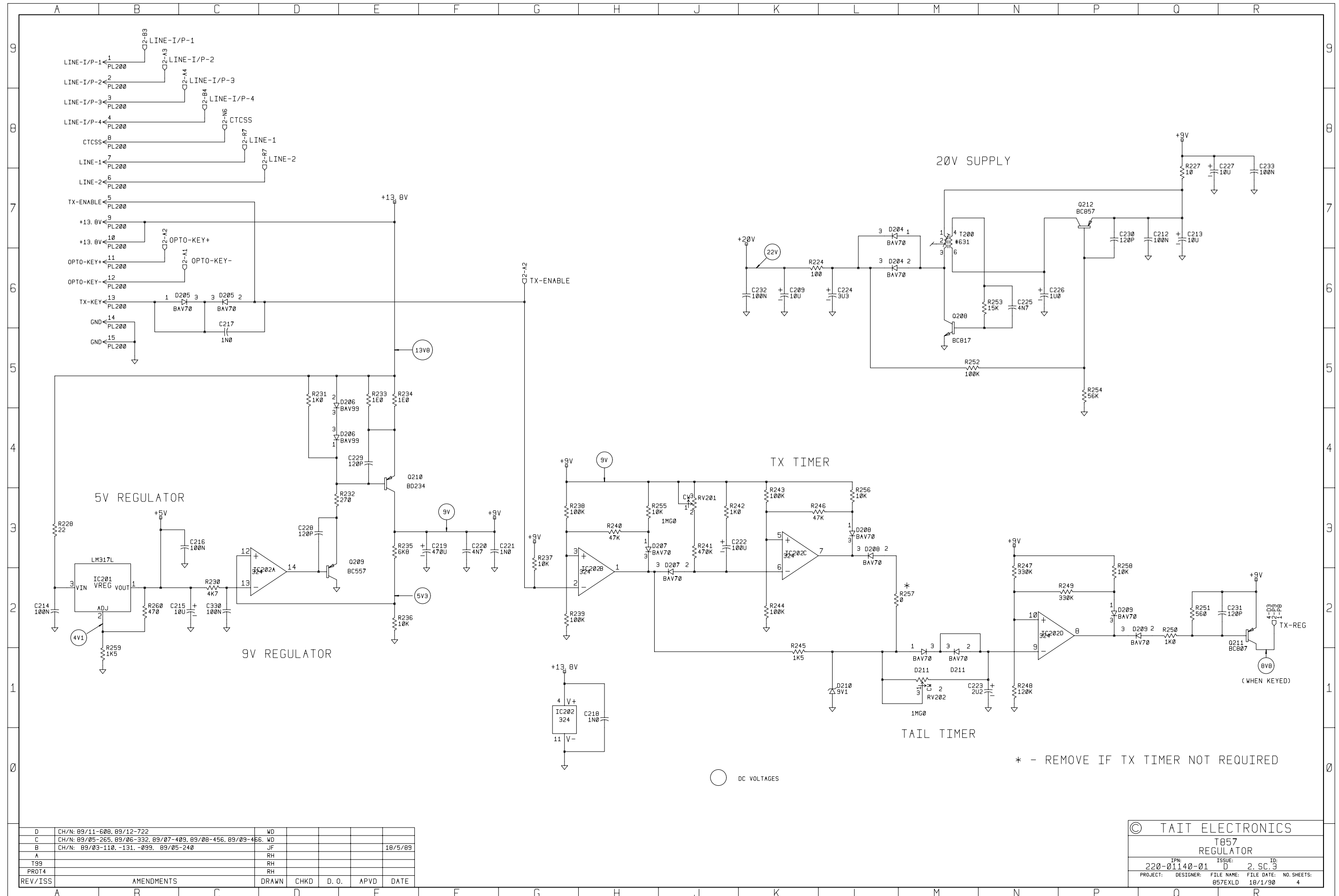
D	CH/N: 89/11-608, 89/12-722	WD			
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-456	WD			
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF			18/5/89
A		RH			
T99		RH			
PROT4		RH			
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD DATE

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T857  
AUDIO PROCESSOR

IPN:	ISSUE:	ID:
220-01140-01	D	2. SC.2
PROJECT:	DESIGNER:	FILE NAME:
	857EXLD	18/1/98
FILE DATE:	NO. SHEETS:	
	4	



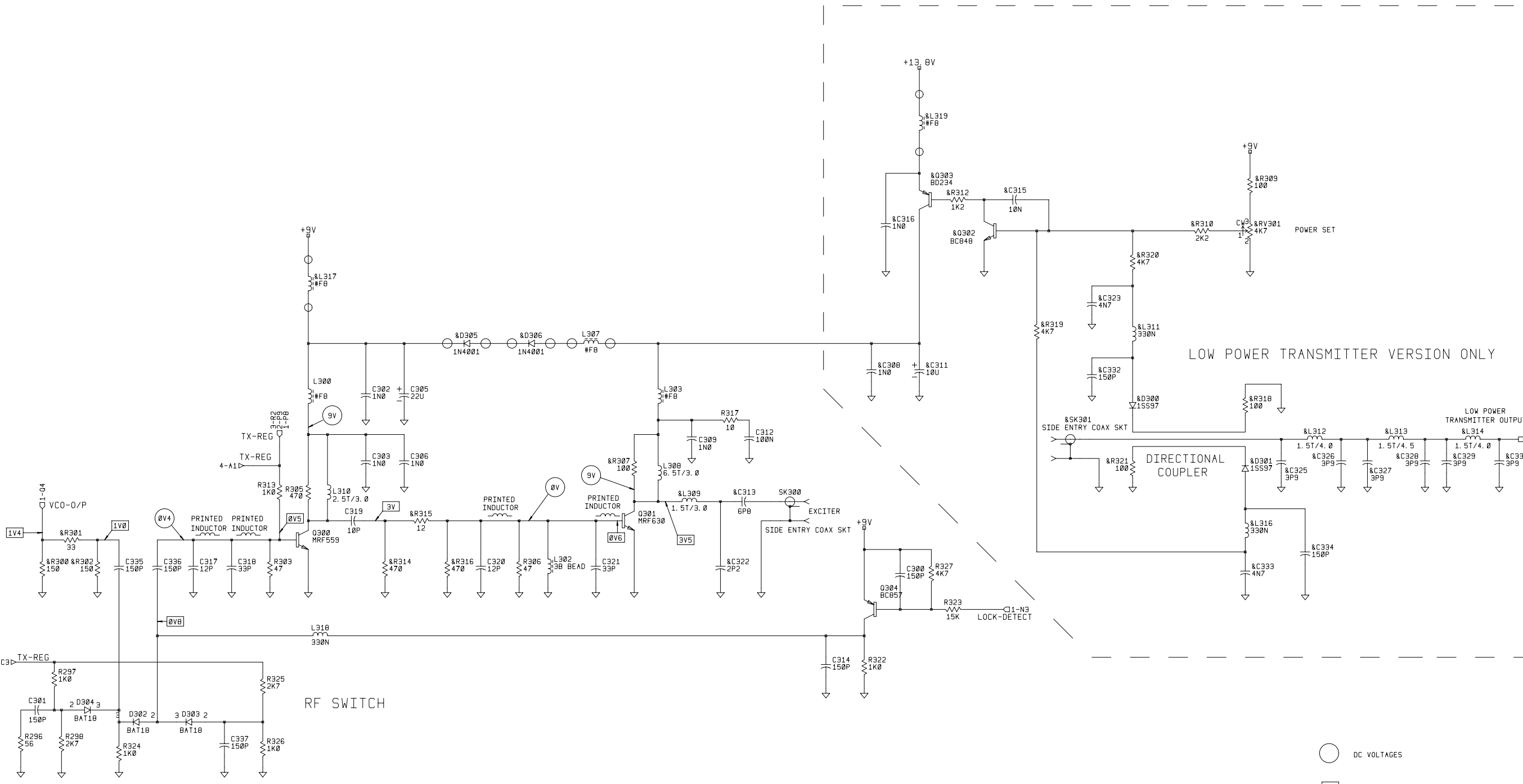


D	CH/N: 89/11-608, 89/12-722	WD			
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-466	WD			18/5/89
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF			
A		RH			
T99		RH			
PROT4		RH			
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD
					DATE

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T857 REGULATOR	
IPN: 220-01140-01	ISSUE: 2. SC. 3
PROJECT: DESIGNER: FILE NAME: 857EXLD	FILE DATE: 18/1/90
	NO. SHEETS: 4

VARIANT DEPENDANT VALUES

		MHZ	&C313	&C322	&C325	&C326	&C327	&C328	&C329	&C331	&R300	&R301	&R302	&R307	&R314	&R315	&R316	&D305	&D306	&L309	&L312	&L313	&L314	&L317	&L319	&C308	&C311	&C315	&C316	&C323	&C332	&C333	&C334	&R309	&R310	&R312	&R318	&R319	&R320	&R321	&R302	&R303	&D300	&D301	&SK301	&L311	&L316	&RV301
LOW	-11	400-440	12PS	3P9S	4P7S	4P7S	5P6S	4P7S	5P6S	4P7S	150S	33S	150S	470W.5	270Y	18Y	270Y	1N4001	1N4001	15H30	15H45	15H50	15H45	-	FB	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	15S97	15S97	SK1C	330NHW	330NHW	4K7VAR2
VERSION	-21	440-480	6P6S	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	150S	33S	150S	470W.5	470Y	12Y	470Y	1N4001	1N4001	15H30	15H40	15H45	15H40	-	FB	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	15S97	15S97	SK1C	330NHW	330NHW	4K7VAR2
2 WATT	-31	480-520	3P3S	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	470W.5	470Y	12Y	470Y	1N4001	1N4001	15H30	15H40	15H45	15H40	-	FB	1N0S	10UZT	10NS	1N0S	4N7S	150PS	4N7S	150PS	100S	2K2S	1K2S	100S	4K7S	4K7S	100S	BC848	BD234	15S97	15S97	SK1C	330NHW	330NHW	4K7VAR2
EXCITER	-10	400-440	22PS	-	4P7S	4P7S	5P6S	4P7S	5P6S	4P7S	330S	18S	330S	100Z	270Y	18Y	270Y	FB	FB	15H30	15H45	15H50	15H45	FB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERSION	-20	440-480	15PS	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	100Z	270Y	18Y	270Y	FB	FB	15H30	15H40	15H45	15H40	FB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 WATT	-30	480-520	15PS	2P2S	3P9S	3P9S	3P9S	3P9S	3P9S	3P9S	330S	18S	330S	100Z	270Y	18Y	270Y	FB	FB	15H25	15H40	15H45	15H40	FB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		



D	CH/N: 89/11-608, 89/12-722	WD			
C	CH/N: 89/05-265, 89/06-332, 89/07-409, 89/08-456, 89/09-456	WD			
B	CH/N: 89/03-110, -131, -099, 89/05-240	JF			18/5/89
A		RH			
T99		RH			
PROT4		RH			
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD

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 T857  
 EXCITER DRIVE AMPLIFIER  
 IPN: 220-01140-01 ISSUE: D ID: 2. SC.4  
 PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS:  
 857EXLD 18/1/98 4

## T857 Parts List (IPN 220-01140-02)

**How To Use This Parts List**

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped in alphabetical order and then in numerical order within each group. Each component entry comprises three or four columns: the circuit reference, variant (if applicable), IPN and description. A number in the variant column indicates that this is a variant component which is fitted only to the product type listed.

The miscellaneous and mechanical section lists the variant and common parts in IPN order.

**Parts List Amendments**

C124 Changed from 12p (015-22120-01) to 4p7. Limiter offset problems due to DC coupled stages (90/06-275).  
 C148 Changed from 10n (015-25100-08) to 22n. Limiter offset problems due to DC coupled stages (90/06-275).  
 R127 Changed from 180K (036-16180-00) to 100K. Limiter offset problems due to DC coupled stages (90/06-275).  
 R131 Changed from 390K (036-16390-00) to 1M. Limiter offset problems due to DC coupled stages (90/06-275).  
 R169 Changed from 47K (036-15470-00) to 120K. Limiter offset problems due to DC coupled stages (90/06-275).

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C1		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C135		015-22470-01	CAP CER 0805 CHIP 47P 5% NPO 50V
C2		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C137		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S
C3		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C139		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C4		015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	C141		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C5		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C145		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C6		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C146		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C9		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C147		020-07100-52	CAP ELECT AI RDL 1M 50V 5X11MM
C10		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C148		015-05220-08	CAP CER 1206 CHIP 22N 10% X7R 50V
C11		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C149		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C12		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C150		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C13		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C151		015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V
C14		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C152		020-09100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C15		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C153		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C16		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C154		020-09100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C17		015-22560-01	CAP CER 0805 CHIP 56P 5% NPO 50V	C156		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C19		015-23680-08	CAP CER 0805 CHIP 680P 10% X7R 50V	&C157	NB	015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V
C20		015-23470-08	CAP CER 0805 CHIP 470P 10% X7R 50V	&C157	WB	015-21150-01	CAP CER 0805 CHIP 1P5 +/-0.25P NPO 50V
C25		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C158		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C26		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	C160		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C29		022-06330-03	CAP METAL POLYES 330N 10% 50V 5MM L/S	C161		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C30		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C162		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C33		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V	C163		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C34		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C164		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C35		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C166		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C36		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C209		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C39		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C212		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C40		015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	C213		025-08100-02	CAP TANT BEAD 10M 10% 16V
C42		015-25150-08	CAP CER 0805 CHIP 15N 10% X7R 50V	C214		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C43		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	C215		025-08100-02	CAP TANT BEAD 10M 10% 16V
C44		015-23220-01	CAP CER 0805 CHIP 220P 5% NPO 50V	C216		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C45		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V	C217		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C46		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C218		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C101		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM	C219		020-09470-07	CAP 470M 16V 20% ELEC VERT 8*20 3.5MM L/S
C102		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C220		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
C103		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C221		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C104		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C222		020-09100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C105		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C223		020-07220-02	CAP ELECT RADL 2M2 50V 5X11MM 5MM L/S
C106		015-24220-08	CAP CER 0805 CHIP 2N2 10% X7R 50V	C224		025-07330-01	CAP TANT BEAD 3M3 35V
C107		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S	C225		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
C108		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C226		020-07100-52	CAP ELECT AI RDL 1M 50V 5X11MM
C109		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C227		020-08100-07	CAP ELECT AI RDL 10M 50V 5X11MM
C110		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C228		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C111		015-22470-01	CAP CER 0805 CHIP 47P 5% NPO 50V	C229		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C112		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S	C230		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C113		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	C231		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C115		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C232		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C118		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C233		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C119		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C300		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V
C121		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C301		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V
C123		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	C302		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C124		015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V	C303		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C126		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C305		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S
C128		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	C306		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C129		020-08470-08	CAP ELECT AI RDL 47M 16V 6X11MM	C309		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C133		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V	C312		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
				#C313	LOW	015-22220-01	CAP CER 0805 CHIP 22P 5% NPO 50V



Ref	Var	IPN	Description	Ref	Var	IPN	Description
R162		036-13680-00	RES M/F 0805 CHIP 680E 5%	SW101		232-00010-26	SWITCH PUSH SPDT RT ANGLE PCB MTG NO BU
R163		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R164		036-13680-00	RES M/F 0805 CHIP 680E 5%	T100		053-00010-17	XFMR T4030 LINE MATCH POTCORE
R166		036-17100-00	RES M/F 0805 CHIP 1M 5%	T200		050-00016-31	COIL TAIT NO 631 455KHZ IF 7MM CAN
R167		036-14680-00	RES M/F 0805 CHIP 6K8 5%				
R168		036-17100-00	RES M/F 0805 CHIP 1M 5%				
R169		036-16120-00	RES M/F 0805 CHIP 120K 5%				
R170		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R171		036-14220-00	RES M/F 0805 CHIP 2K2 5%	NOTE:	LOW	= 400-440MHZ	
R172		036-16470-00	RES M/F 0805 CHIP 470K 5%		MID	= 440-480MHZ	
R173		036-15100-00	RES M/F 0805 CHIP 10K 5%		HI	= 480-520MHZ	
R174		036-16330-00	RES M/F 0805 CHIP 330K 5%		NB	= 2.5KHZ DEVIATION	
R175		036-14100-00	RES M/F 0805 CHIP 1K 5%		WB	= 5KHZ DEVIATION	
R176		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R177		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R178		036-15560-00	RES M/F 0805 CHIP 56K 5%		1PPM	= 1PPM TCXO	
R179		036-15560-00	RES M/F 0805 CHIP 56K 5%		2PPM	= 2PPM TCXO	
R180		036-17100-00	RES M/F 0805 CHIP 1M 5%		2.5PPM	= 2.5PPM TCXO	
R181		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R182		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R183		036-14820-00	RES M/F 0805 CHIP 8K2 5%				
&R184	NB	036-15220-00	RES M/F 0805 CHIP 22K 5%				
&R184	WB	036-15150-00	RES M/F 0805 CHIP 15K 5%				
&R185	NB	036-15560-00	RES M/F 0805 CHIP 56K 5%				
&R185	WB	036-15470-00	RES M/F 0805 CHIP 47K 5%				
R186		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R187		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R188		036-17100-00	RES M/F 0805 CHIP 1M 5%				
R189		036-13560-00	RES M/F 0805 CHIP 560E 5%				
R190		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R192		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
R194		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R195		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R196		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R197		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
RV201		042-07100-06	RES PRESET 1M CARBON 6MM FLAT				
RV202		042-07100-06	RES PRESET 1M CARBON 6MM FLAT				
R224		036-13100-00	RES M/F 0805 CHIP 100E 5%				
R227		036-12100-00	RES M/F 0805 CHIP 10E 5%				
R228		036-12220-00	RES M/F 0805 CHIP 22E 5%				
R230		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R231		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R232		032-33270-00	RES M/F PWR 270E 5% 1W 12X4.5MM				
R233		032-31100-00	RES M/F PWR 1E0 5% 1W 12X4.5MM				
R234		032-31100-00	RES M/F PWR 1E0 5% 1W 12X4.5MM				
R235		036-14680-00	RES M/F 0805 CHIP 6K8 5%				
R236		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R237		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R238		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R239		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R240		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R241		036-16470-00	RES M/F 0805 CHIP 470K 5%				
R242		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R243		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R244		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R245		036-14150-00	RES M/F 0805 CHIP 1K5 5%				
R246		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R247		036-16330-00	RES M/F 0805 CHIP 330K 5%				
R248		036-16120-00	RES M/F 0805 CHIP 120K 5%				
R249		036-16330-00	RES M/F 0805 CHIP 330K 5%				
R250		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R251		036-13560-00	RES M/F 0805 CHIP 560E 5%				
R252		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R253		036-15150-00	RES M/F 0805 CHIP 15K 5%				
R254		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R255		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R256		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R257		036-10000-00	RES M/F 0805 CHIP ZERO OHM				
R258		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R259		036-14150-00	RES M/F 0805 CHIP 1K5 5%				
R260		036-13470-00	RES M/F 0805 CHIP 470E 5%				
R296		036-12560-00	RES M/F 0805 CHIP 56E 5%				
R297		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R298		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
R300		036-13330-00	RES M/F 0805 CHIP 330E 5%				
R301		036-12180-00	RES M/F 0805 CHIP 18E 5%				
R302		036-13330-00	RES M/F 0805 CHIP 330E 5%				
R303		036-12470-00	RES M/F 0805 CHIP 47E 5%				
R304		036-12560-00	RES M/F 0805 CHIP 56E 5%				
R305		036-13470-00	RES M/F 0805 CHIP 470E 5%				
R306		036-12470-00	RES M/F 0805 CHIP 47E 5%				
R307		032-33100-10	RES M/F PWR 100E 5% 2W 12X4.5MM NON PREF				
R312		036-13680-00	RES M/F 0805 CHIP 680E 5%				
R313		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R314		030-03270-10	RES FILM AI 270E 5% 0.4W 4X1.6MM				
R315		030-02180-10	RES FILM AI 18E 5% 0.4W 4X1.6MM				
R316		030-03270-10	RES FILM AI 270E 5% 0.4W 4X1.6MM				
R317		036-12100-00	RES M/F 0805 CHIP 10E 5%				
R322		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R323		036-15150-00	RES M/F 0805 CHIP 15K 5%				
R324		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R325		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
R326		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R327		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
SK1		240-04020-57	SKT 10 WAY 1ROW PCB MTG TOP ENTRY				
SK100		240-02020-05	SKT STEREO PHONE JACK PCB MTG				
SK300		240-02100-44	SKT COAX MINI JACK PCB MTG ANGLED				



## T857 Mechanical &amp; Miscellaneous Parts (220-01140-02)

IPN	Description	IPN	Description
012-04150-01	CAP CER F/THRU 1N5 NO LEAD C1-C15 On 15 Way D Range.		Attached To D Range Plug x1.
051-00006-02	SOLDER SPRING 1.3MM A4M1877 LED1 x2, LED2 x2.	345-00040-06	SCREW M3*8MM PAN POZI ST BZ For Final Installation Kit x2.
065-00010-13	BEAD FERRITE 7D 1.9*0.9*3.8MM STACK POLE 15 Way D Range x15.	345-00040-08	SCREW M3*12MM PAN POZI ST BZ D Range Blanking Cover Mtg x2.
201-00030-02	WIRE #1 T/C WIRE 7/0.2MM PVC RED 2 x70mm for LEDs.	345-00040-09	SCREW M3*6MM CSK POZI TRUNCATED HEAD ST BZ For Final Installation Kit x2.
201-00030-10	WIRE #1 T/C WIRE 7/0.2MM PVC BLACK 2 x70mm for LEDs.	345-00040-10	SCREW M3*6MM PAN POZI ST BZ Guide Skt to Float Plate x4, Rail x4.
206-00010-11	CABLE COAX 50 OHM RG316-U PTFE 140mm SK300/Front Panel x1, 90mm Final Inst Kit x1.	345-00040-20	SCREW M3*8MM BUTTON SKT HD BLACK ZINC PHOS Front Panel Mtg x4.
220-01140-02	PCB T857 MAIN BD	349-00020-31	SCREW TAPTITE M3X10MM PAN POZI BZ N Connector Cover x4.
232-00020-26	BUTTON PUSH FOR 232-00010-26 SWITCH For SW101.	349-00020-32	SCREW TAPTITE M3*8MM PAN POZI BZ PCB Mounting x8.
240-00010-55	PLUG 15 WAY D RANGE WIRE WRAP PINS PNL MTG PL200	349-00020-43	SCREW TAPTITE M4*12MM PAN POZI BZ Top Cover Mtg x14.
240-00100-43	PLUG COAX MINI PIN PLUG CRIMP 1.5D COAX 140mm Coax Cable to SK300 x1.	349-00020-45	SCREW TAPTITE M4*20MM PAN POZI BZ Bottom Cover Mtg x14.
240-00100-46	PLUG COAX PNL JACK SUHNER 24 SMC50-2-10C 140mm Coax Cable to Front Panel x1.	352-00010-08	NUT M3 COLD FORM HEX ST BZ D Range x2, D Range Cover x2, Vco Mtg x2.
240-02010-54	SKT 15WAY DRANGE PNL MTG 105 DEG C Guide Rail Assembly Component, Part of Installation Kit x1	352-00010-29	NUT M4 NYLOC HEX Handle x2.
240-02100-46	SKT COAX ELBOW SUHNER 16SMC50-2-10C 90mm Coax Cable For Exciter/PA Connection x2	353-00010-10	WASHER M3 FLAT 7MM*0.6MM ST BZ Float Plate x4.
240-04020-62	SKT 2 WAY RECEPTL SHORTING LINK For PLS100, 101, 102, 103 & 201 x1 Each.	353-00010-12	WASHER M3 SPRING BZ D Range x2, D Range Cover x2.
240-04020-65	SKT JACK PIN 1.3MM PCB MTG 64 WAY SIL STRIP For SJ2-1, SJ3-1, SJ4-1 TO SJ4-5, SJ5-1 TO SJ5-5	362-00010-23	GASKET SIL INSULATING TO-220 CLIP MTD Q210 x1.
303-11168-00	CHASSIS HSINK PNTD CMLPT A1M2364 800 SERIES	362-00010-33	GROMMET LED MTG 3MM LO CURRENT LEDS
303-23055-00	COVER A4M955 N CONN HOLE T857 Blanking Plate On Rear For N Connector x1.	365-00011-53	LABEL WHITE RW2365/1 104*37MM SPECIAL ADHSIVE Item Description On Outside Of Box x1.
303-23118-00	COVER A3M2247 D RANGE HOLE T855/7 Blanking Plate On Rear For Extra D Range Connector x1.	365-00100-03	LABEL BLANK 10.8*30MM S/A METLSD POLYES
303-50074-00	CLIP A3M2246 SPRING XSTR CLAMP T857 Q210 x1.	365-00100-20	LABEL WHITE S/A 28*11MM QUIKSTIK RW718/4 Rev No x1, EPROM x1, T100 x1, 'Test Report Inside' x1.
303-50078-00	CLIP A4M2630 0.1MM SPRIWIRE CABLE CLAMP T800 For Securing 140mm Coax Cable x1	365-01391-01	LABEL 30*10.8MM TAMPERMARK VOID MATT FCC Rules Pt 15 x1, FCC ID x1, Aust DOTC Cert x1, Ser No x1, Canadian DOC x1.
306-01010-00	FERRULE A4M948 HANDLE FXD EQUIP For Handle x2.	365-01500-00	LABEL 24*12MM CE CONFORMITY
308-01007-00	HANDLE A4M949 FXD EQUIP	399-00010-51	BAG PLASTIC 75*100MM
312-01052-00	LID TOP PNTD COMPL A1M2364 800 SERIES	400-00020-05	SLEEVING 1.5MM SIL RUBBER
312-01053-00	LID BOTTOM PNTD COMPL A1M2364 800 SERIES	410-01081-00	CRTN T800 MODULE KIWI REF22860 PRTD
316-06392-00	PNL FRT COMPL T857 EX A3M2218/2	410-01082-00	CRTN 10 T800 KIWI REF24417 423X410X360
316-85015-00	PIN A4M775 LOCATING D RANGE For Securing D Range x2.		
316-85099-00	PLATE FLOAT A2M2248 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
316-85100-00	PLATE FRT A2M2249 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
318-01014-00	RAIL A2M2214 FOR 800 SERIES FXD EQUIP Guide Rail Assembly Component, Part of Installation Kit x2		
319-01152-00	SHIELD A3M2250 F/THRU MTG T857		





## T857 Grid Reference Index (IPN 220-01140-02)

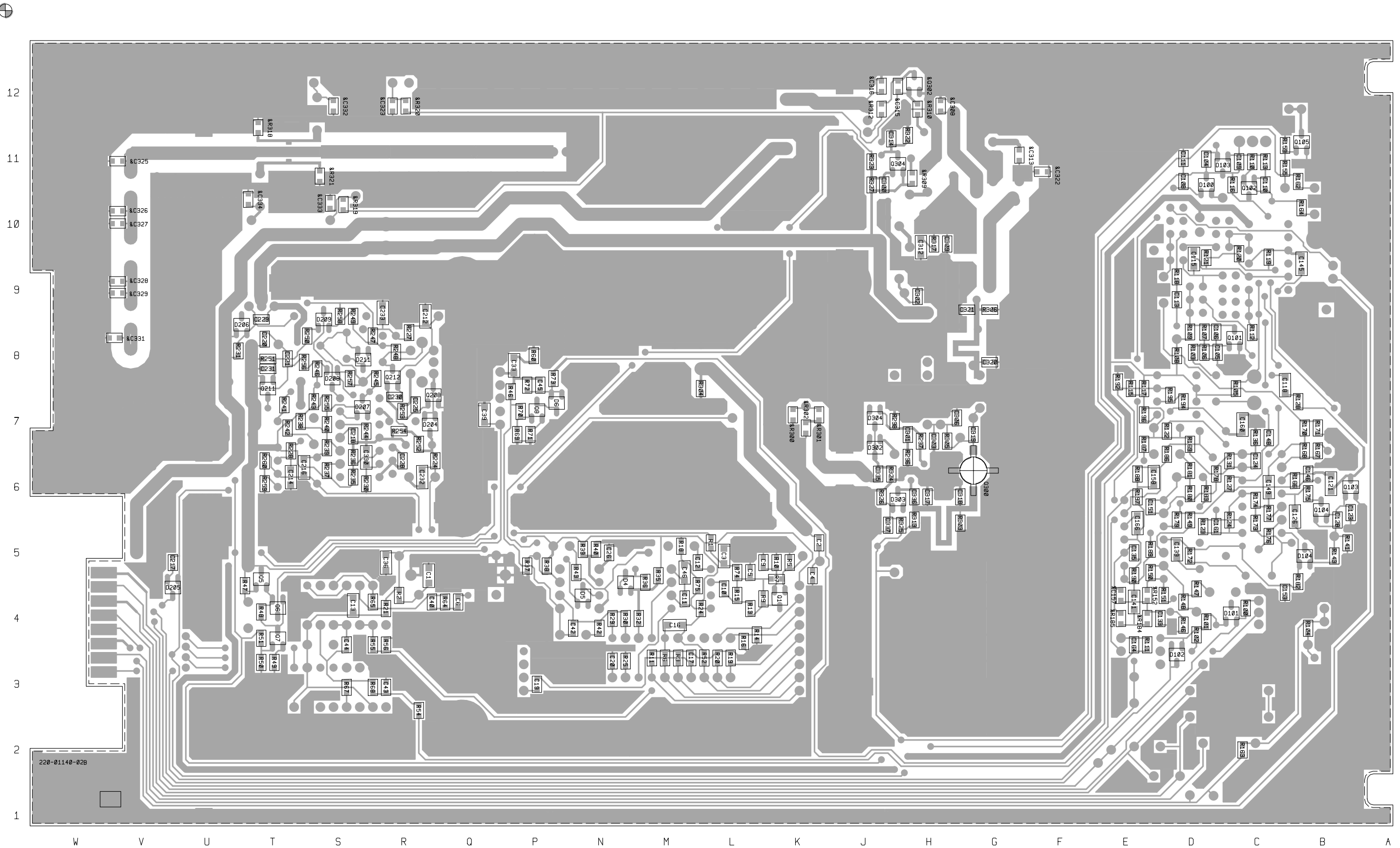
**How To Use This Grid Reference Index**

The first digit in the PCB layout reference is a "1" or "2", indicating the top or bottom side layout respectively, and the last two characters give the location of the component on that diagram.

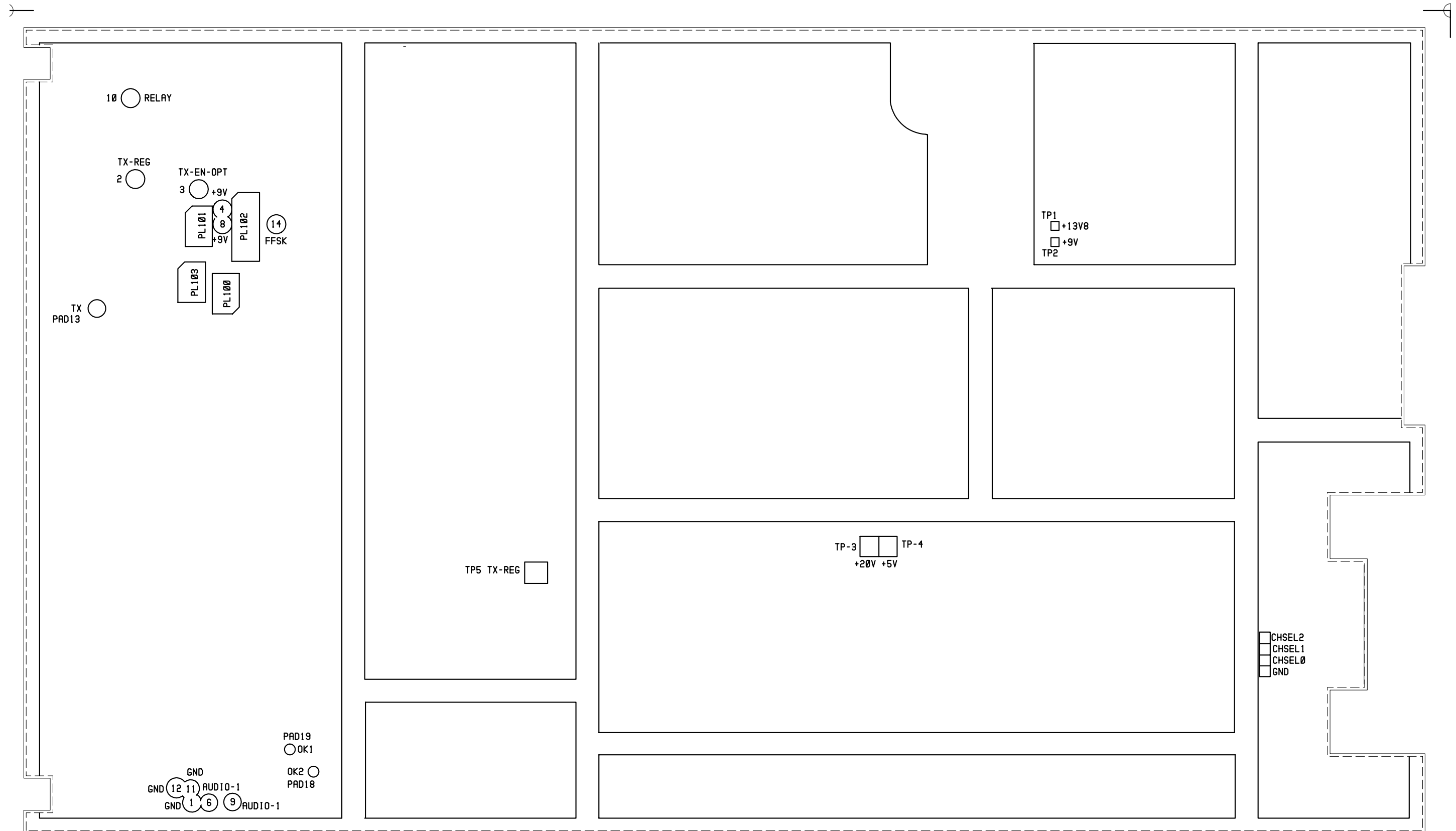
The first digit in the circuit diagram reference is the sheet number, and the last two characters give the location of the component on that sheet.

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
CHSLGND	1:U3	1-Q0	C135	2:E5	2-Q4	C320	2:G8	4-F2			1-G7
CHSELO	1:U3	1-Q1	C137	1:E7	2-Q1	C321	2:G9	4-G2			1-H7
CHSEL1	1:U4	1-Q0	C139	2:D5	2-J0	#C322	2:F11	4-H2			1-J7
CHSEL2	1:U4	1-Q0	C141	2:E4	2-R5	C330	2:S7	3-C2	IC100	1:E4	2-D1
C1	2:R5	1-A8	C145	2:B9	2-C5	C335	2:J6	4-B2	IC101	1:C10	2-E4
C2	2:K5	1-B4	C146	2:B6	2-F6	C336	2:H6	4-B2	IC102	1:C7	2-G5
C3	2:L5	1-B5	C147	1:B7	2-G4	C337	2:J5	4-C0			2-K5
C4	2:K5	1-B4	C148	2:C7	2-H2	D4	2:N5	1-J3			2-F1
C5	2:L5	1-B5	C149	2:C6	2-H5			1-K3			2-H2
C6	2:Q4	1-B7	C150	1:B5	2-J6	D5	2:N4	1-M3			2-H0
C9	2:L5	1-C4	C151	2:E6	2-K2			1-M3	IC103	1:D6	2-K2
C10	2:L5	1-D5	C152	1:D6	2-L2	D6	2:P7	1-N7			2-N4
C11	2:M4	1-E5	C153	2:C4	2-L6			1-N7			2-R4
C12	2:M5	1-E4	C154	1:D4	2-M1	D100	2:D11	2-C2			2-R1
C13	2:S4	1-E8	C156	1:D4	2-N6			2-D2			2-J0
C14	1:S4	1-F8	&C157	2:E4	2-Q4	D101	2:C4	2-B1	IC104	1:D8	2-R2
C15	1:M5	1-G4	C158	2:E6	2-R0			2-B1			2-M0
C16	2:M4	1-G4	C160	2:C7	2-Q3	D102	2:D4	2-B2			2-K0
C17	2:M3	1-G2	C161	2:D5	2-F1			2-B2	IC201	1:T6	3-A2
C19	2:P3	1-G2	C162	1:E2	2-A3	D103	2:D11	2-C3	IC202	1:S6	3-H2
C20	2:N3	1-H3	C163	1:D2	2-A3			2-D3			3-K2
C25	1:P5	1-K5	C164	2:E4	2-D0	D104	2:B5	2-M5			3-N1
C26	2:N5	1-K2	C166	2:E6	2-Q1			2-L5			3-C2
C29	1:N4	1-L5	C209	1:R6	3-K6	D106	1:B12	2-R8			3-G1
C30	1:N5	1-P3	C212	2:R9	3-Q7	D107	1:C4	2-B4	L1	1:K5	1-B4
C33	2:P8	1-M5	C213	1:R9	3-Q7	D108	1:B4	2-C4	L300	1:H7	4-D4
C34	1:T4	1-N8	C214	2:T6	3-A2	D203	1:V6	3-E6	L302	1:G8	4-F2
C35	1:R5	1-Q7	C215	1:S6	3-C2	D204	2:R7	3-L7	L303	1:H11	4-H4
C36	2:R5	1-R7	C216	2:T6	3-C3			3-L6	L307	1:G11	4-G4
C39	2:Q7	1-Q9	C217	2:V5	3-C5	D205	2:V5	3-C6	L308	1:G10	4-H3
C40	2:R4	1-C7	C218	2:S7	3-H1			3-C6	#L309	1:G11	4-H3
C42	2:N4	1-L5	C219	1:T8	3-F3	D206	2:U9	3-D4	L310	1:H7	4-D3
C43	2:R3	1-G6	C220	2:T8	3-F3			3-D5	L317	1:H8	4-D5
C44	2:S4	1-H7	C221	2:T8	3-F3	D207	2:S7	3-H3	L318	1:J8	4-D1
C45	2:P8	1-N5	C222	1:S7	3-J3			3-J2	PAD1	1:C1	2-R8
C46	2:M5	1-D5	C223	1:R7	3-N1	D208	2:S8	3-L3	PAD2	1:C11	2-R9
C101	1:D8	2-B7	C224	1:R7	3-L6			3-L3	PAD3	1:D10	2-B2
C102	1:B3	2-C3	C225	2:R7	3-N6	D209	2:S9	3-P2	PAD4	1:D10	2-R6
C103	1:B4	2-C3	C226	1:R8	3-N6			3-P2	PAD5	1:E3	2-N6
C104	2:D11	2-C3	C227	1:R9	3-Q7	D210	1:S8	3-L1	PAD6	1:D1	2-R6
C105	2:D8	2-C6	C228	2:R6	3-D3	D211	2:S8	3-M1	PAD7	1:E3	2-N6
C106	2:D8	2-C7	C229	2:T9	3-E4			3-M1	PAD8	1:D10	2-R6
C107	1:D8	2-C8	C230	2:R7	3-P7	D302	2:J7	4-B1	PAD9	1:D1	2-R7
C108	2:D11	2-D2	C231	2:T8	3-R2	D303	2:J6	4-C1	PAD10	1:C12	2-R8
C109	2:C11	2-D3	C232	2:R6	3-K6	D304	2:J7	4-B1	PAD11	1:C2	2-R9
C110	2:C11	2-D3	C233	2:R9	3-R7	D305	1:H9	4-F4	PAD12	1:C2	2-R9
C111	2:D11	2-E2	C300	2:J11	4-K2	D306	1:H10	4-F4	PAD13	1:B9	2-A7
C112	1:D7	2-E6	C301	2:H7	4-A1	=IC1	1:R5	1-B8	PAD14	1:E10	2-A9
C113	2:D9	2-E2	C302	2:H9	4-E4	&IC3	1:M4	1-E4	PAD15	1:C9	2-G1
C115	2:D10	2-F6	C303	2:H7	4-E3	IC4	1:T3	1-F7	PAD16	1:D9	2-G1
C118	2:C8	2-F7	C305	1:H9	4-E4			1-G8	PAD18	1:E2	2-A1
C119	1:D9	2-G3	C306	2:H7	4-E3	IC5	1:N4	1-F3	PAD19	1:E2	2-A1
C121	2:B6	2-G7	C309	2:H10	4-H3	IC6	1:P4	1-L5	PL1	1:P5	1-Q1
C123	2:B6	2-H7	C312	2:H10	4-J3			1-L3			1-Q0
C124	2:C6	2-J1	#C313	2:G11	4-H3			1-P3			1-Q0
C126	2:B6	2-H0	C314	2:J11	4-J1	IC7	1:T5	1-E8			1-Q2
C128	2:B6	2-J7	C317	2:H6	4-C2			1-D7			1-Q1
C129	1:B5	2-K7	C318	2:H6	4-C2			1-D7			1-Q2
C133	2:E4	2-P4	C319	2:G7	4-D3			1-E7			1-Q3

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
		1-Q2	R15	2:L4	1-C5	R147	2:D5	2-M1	R260	2:T6	3-B2
		1-Q2	R16	2:L4	1-D1	R148	2:D4	2-N5	R296	2:H7	4-A0
		1-Q1	R18	2:M5	1-D6	R149	2:D6	2-N5	R297	2:H7	4-A1
PL100	1:D9	2-E8	R19	2:L3	1-D1	R150	2:E5	2-N4	R298	2:J7	4-A0
		2-D7	R20	2:L3	1-D1	R151	2:D4	2-P4	R300	2:K7	4-A2
		2-D7	R21	2:R4	1-F8	&R152	2:E4	2-P5	R301	2:K7	4-A2
		2-D8	R24	2:M4	1-G5	R155	2:C11	2-Q8	R302	2:K7	4-B2
		2-E7	R25	2:N3	1-G3	R159	2:C11	2-Q8	R303	2:H6	4-D2
		2-E7	R29	2:N4	1-H3	R162	2:B11	2-R9	R304	2:M8	1-A4
PL101	1:C10	2-E3	R30	2:N4	1-H3	R163	2:C2	2-R6	R305	2:H7	4-D3
		2-E3	R32	2:M4	1-J3	R164	2:B10	2-R6	R306	2:G9	4-F2
		2-E3	R35	2:M5	1-J3	R166	2:B6	2-G6	R307	1:H10	4-G3
		2-F3	R36	2:M5	1-J3	R167	2:B7	2-G4	R313	2:H6	4-D3
		2-F3	R37	2:P5	1-J5	R168	2:B7	2-H5	R314	1:G7	4-E2
		2-F3	R38	2:P5	1-K6	R169	2:D7	2-H3	R315	1:G7	4-E3
PL102	1:D10	2-F3	R39	2:N5	1-K3	R170	2:B7	2-H4	R316	1:G8	4-E2
		2-G3	R40	2:N5	1-K2	R171	2:B7	2-H4	R317	2:H10	4-H4
		2-G3	R42	2:N4	1-L5	R172	2:D5	2-J7	R322	2:H11	4-K1
		2-G3	R43	2:N5	1-P3	R173	2:C6	2-J5	R323	2:J11	4-L2
		2-F3	R46	2:P8	1-M5	R174	2:C6	2-J5	R324	2:J6	4-B0
		2-F4	R47	2:T5	1-N8	R175	2:B6	2-J8	R325	2:H5	4-C1
		2-F3	R48	2:T4	1-P8	R176	2:C5	2-J6	R326	2:J6	4-C0
		2-F3	R49	2:T3	1-P7	R177	2:C6	2-J5	R327	2:J11	4-K2
		2-F3	R50	2:T3	1-P7	R178	2:D6	2-K2	SK1	1:K5	1-B1
		2-G4	R51	2:T4	1-P7	R179	2:D6	2-K3			1-B3
PL103	1:C9	2-G1	R52	2:L3	1-H4	R180	2:D6	2-K1			1-B3
		2-G1	R54	2:R3	1-G6	R181	2:D6	2-L1			1-B3
		2-G2	R55	2:S4	1-H6	R182	2:B5	2-L5			1-B2
		2-G1	R56	2:R4	1-H6	R183	2:D6	2-L2			1-B2
		2-G2	R60	2:P8	1-M5	&R184	2:E4	2-Q5			1-B2
		2-G1	R64	2:Q4	1-C7	&R185	2:E4	2-Q5			1-B2
PL200	1:W5	3-B7	R65	2:S4	1-D7	R186	2:D7	2-Q2			1-B1
		3-B7	R67	2:S3	1-G7	R187	2:E7	2-Q1			1-B1
		3-B8	R68	2:S3	1-G6	R188	2:E6	2-R0	SK4	1:M8	1-A4
		3-B7	R69	2:P7	1-L6	R189	2:E5	2-Q4	SK5	1:L7	1-R8
		3-B8	R70	2:P7	1-L6	R190	2:E5	2-R4	SK100	1:B8	2-A7
		3-B6	R71	2:P7	1-M6	R192	2:E8	2-R2	SW101	1:C11	2-B5
		3-B5	R72	2:P8	1-N5	R194	2:D7	2-Q3	SK2-1	1:K8	1-Q4
		3-B9	R73	2:P8	1-N5	R195	2:D7	2-R2	SK2-2	1:K8	1-Q4
		3-B9	R74	2:L5	1-B5	R196	2:E7	2-Q3	SK2-3	1:K8	1-Q4
		3-B8	R75	2:M5	1-E5	R197	2:E6	2-R0	SK2-4	1:K7	1-Q3
		3-B8	R100	2:C4	2-B0	RV201	1:T7	3-J3	SK2-5	1:K7	1-Q4
		3-B6	RV100	1:B9	2-B4	RV202	1:S8	3-M1	SK3-1	1:Q8	1-R5
		3-B6	R101	2:D4	2-B1	R224	2:R6	3-K6	SK3-2	1:Q8	1-R9
		3-B7	R102	2:D4	2-C1	R227	2:R8	3-Q7	SK3-3	1:Q7	1-R8
		3-B6	R103	2:D8	2-C7	R228	2:T7	3-A3	SK3-4	1:Q7	1-R8
Q1	2:K4	1-C4	RV104	1:C5	2-J6	R230	2:S6	3-C2	SK3-5	1:Q7	1-R9
Q5	2:T5	1-N9	R104	2:B4	2-C4	R231	2:U8	3-D5	SK300	1:G11	4-J3
Q6	2:T4	1-P9	RV105	1:D7	2-Q3	R232	1:T9	3-D3	TP1	1:R10	4-L7
Q7	2:T4	1-P7	R105	2:C8	2-C5	R233	1:U8	3-E5	TP2	1:R10	4-P6
Q8	2:P7	1-M7	R106	2:D8	2-C6	R234	1:U7	3-E5	TP3	1:P5	1-N3
Q101	2:C8	2-D7	RV106	1:D5	2-L1	R235	2:S6	3-E3	TP4	1:P5	1-R7
Q102	2:C11	2-E3	R107	2:D8	2-D7	R236	2:S7	3-E2	TP5	1:J5	4-C3
Q103	2:B6	2-H7	R108	2:D8	2-D8	R237	2:S6	3-G3	T100	1:C3	2-B3
Q104	2:B6	2-J8	R109	2:D8	2-D7	R238	2:T7	3-G3	T200	1:R8	3-M7
Q105	2:B11	2-Q8	R110	2:C11	2-D5	R239	2:S7	3-G2			
Q106	1:C4	2-C1	R111	2:E4	2-D0	R240	2:S7	3-H3			
Q208	2:R7	3-M6	R112	2:C8	2-D4	R241	2:T7	3-J3			
Q209	1:R6	3-D2	R113	2:C11	2-D3	R242	2:T7	3-J3			
Q210	1:T9	3-E4	R115	2:E8	2-D6	R243	2:S7	3-K3			
Q211	2:T8	3-R2	R116	2:C11	2-E3	R244	2:S7	3-K2			
Q212	2:R8	3-P7	R117	2:E8	2-E8	R245	2:R8	3-K1			
Q300	2:G6	4-D2	R118	2:D9	2-E2	R246	2:S8	3-L3			
Q301	1:G9	4-G3	R119	2:C10	2-E6	R247	2:S8	3-N2			
Q304	2:J11	4-K2	R120	2:C10	2-E4	R248	2:R8	3-N1			
R1	2:L5	1-B6	R121	2:D10	2-E6	R249	2:S9	3-P2			
R2	2:R4	1-B9	R122	2:D7	2-E2	R250	2:T8	3-Q2			
R3	2:M3	1-B1	R123	2:D5	2-F1	R251	2:T8	3-Q2			
R5	2:K5	1-B4	R124	2:C6	2-F1	R252	2:R7	3-M5			
R6	2:M3	1-B1	R127	2:C6	2-H3	R253	2:R7	3-N6			
R7	2:K5	1-C5	R128	2:B7	2-G7	R254	2:R7	3-P5			
R9	2:L4	1-C5	R131	2:C6	2-J2	R255	2:S7	3-H3			
R10	2:K5	1-C4	R136	2:C7	2-J1	R256	2:T8	3-L3			
R11	2:M3	1-C1	R141	2:B5	2-K7	R257	2:S8	3-L2			
R13	2:L4	1-C5	R143	2:B5	2-L7	R258	2:S9	3-P2			
R14	2:L4	1-C1	R146	2:D4	2-M6	R259	2:T6	3-B1			

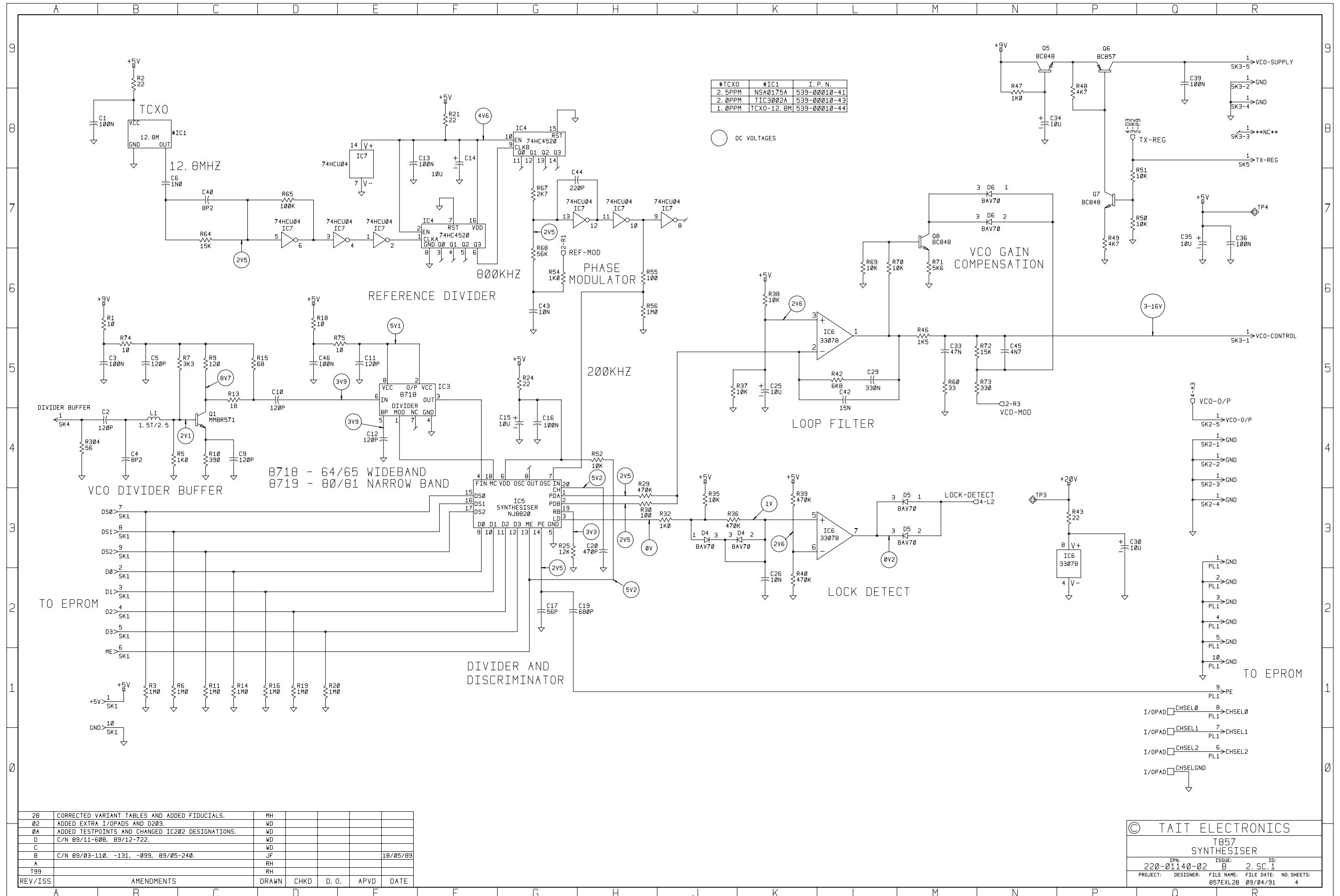


T857 PCB Layout  
Bottom Side  
220-01140-02



T857 Test Points & Options  
Top Side  
220-01140-02





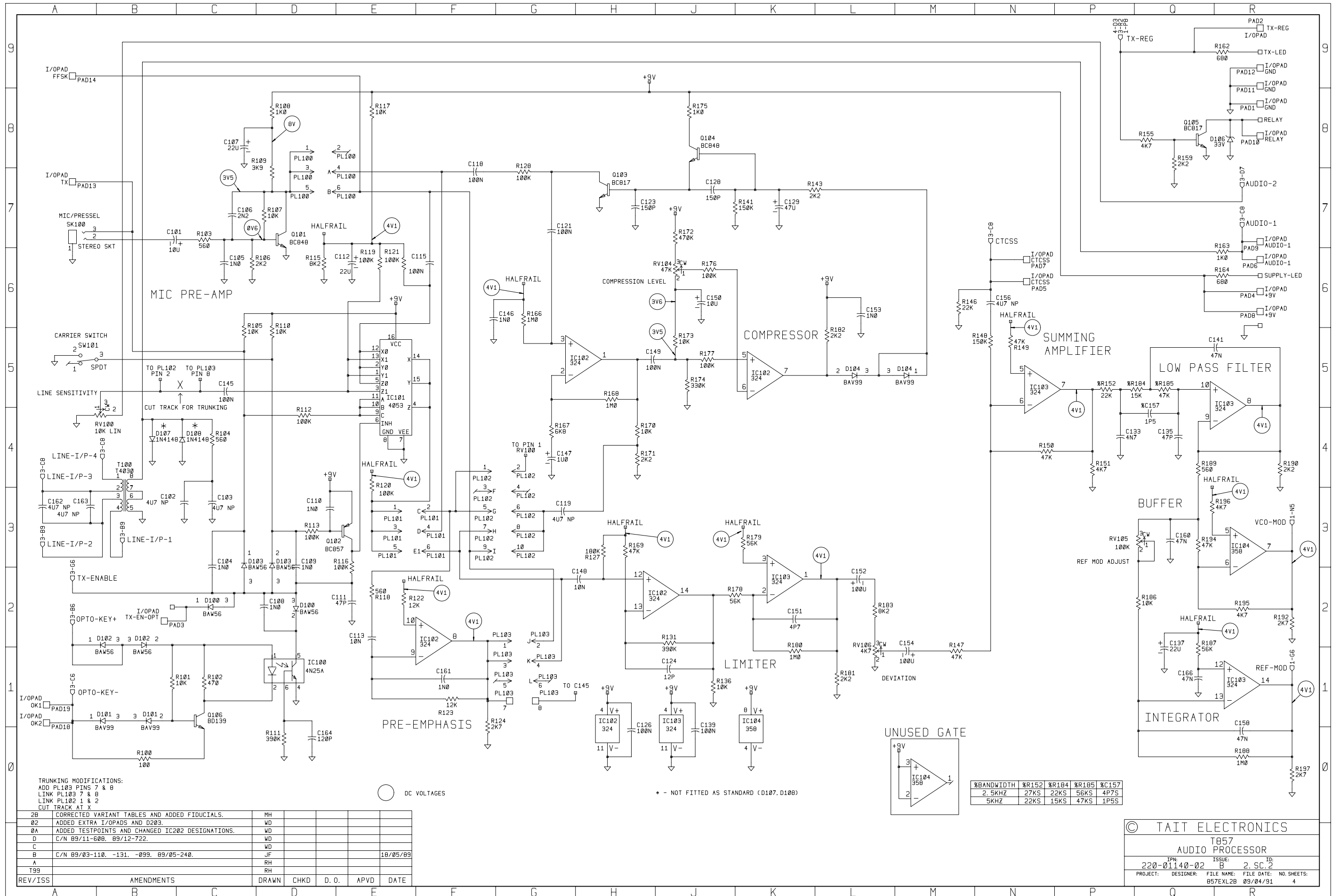
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS.	MH			
02	ADDED EXTRA I/OPADS AND D203.	WD			
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD			
D	C/N 89/11-600. 89/12-722.	WD			
C		WD			
B	C/N 89/03-110. -131. -099. 89/05-240.	JF			18/05/89
A		RH			
T99		RH			
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD DATE

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T857 SYNTHESISER

IPN: 220-01140-02 ISSUE: B 2. SC. 1

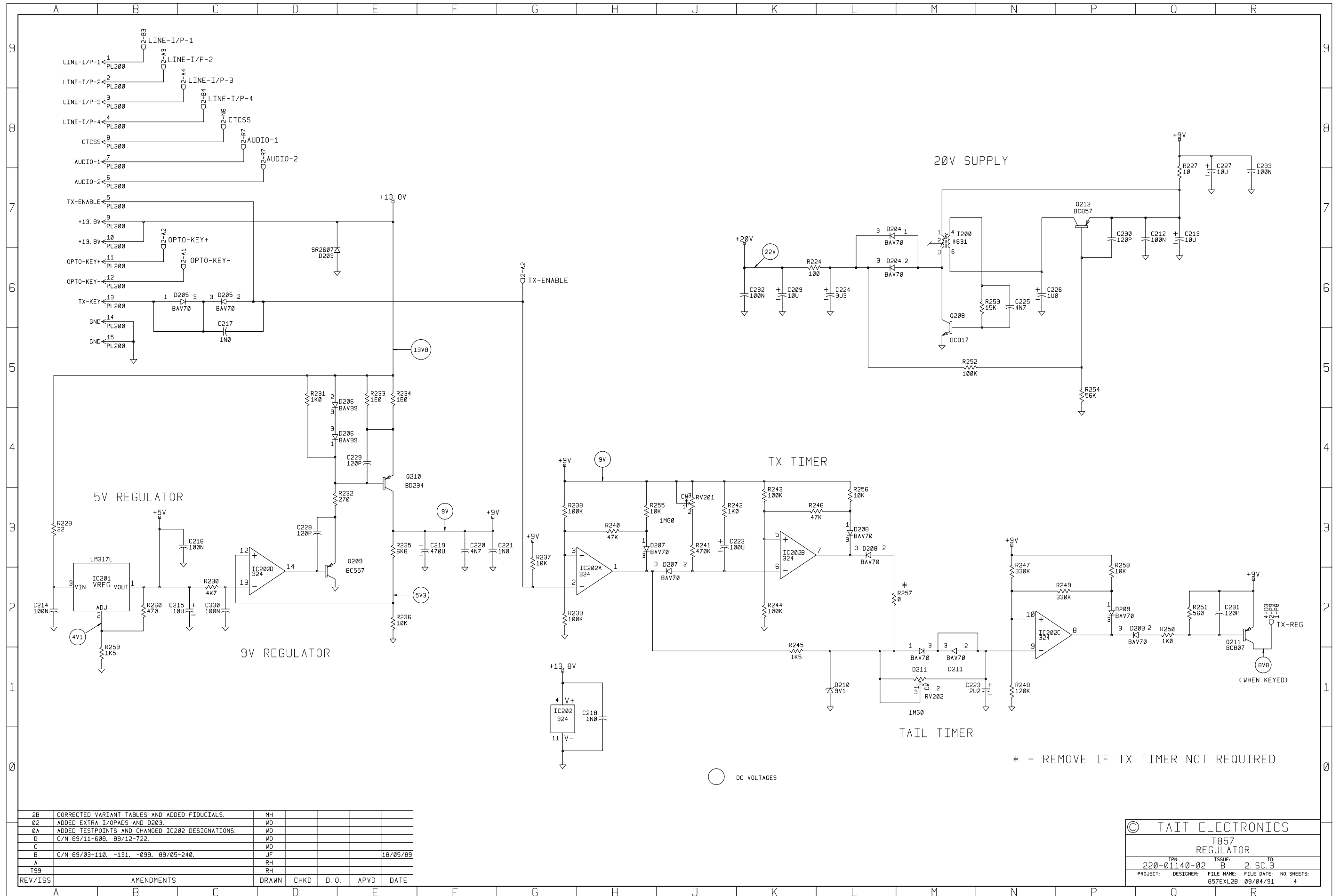
PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS: 057EXL2B 09/04/91 4



TRUNKING MODIFICATIONS:  
 ADD PL103 PINS 7 & 8  
 LINK PL103 7 & 8  
 LINK PL102 1 & 2  
 CUT TRACK AT X

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS.	MH				
02	ADDED EXTRA I/OPADS AND D203.	WD				
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD				
D	C/N 89/11-608. 89/12-722.	WD				
C		WD				
B	C/N 89/03-110. -131. -099. 89/05-240.	JF				18/05/89
A		RH				
T99		RH				

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 T857  
 AUDIO PROCESSOR  
 I/PN: 220-01140-02 ISSUE: B 2 SC.2 ID:  
 PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS:  
 857EXL2B 89/04/91 4



2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS.	MH			
02	ADDED EXTRA I/OPADS AND D203.	WD			
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD			
D	C/N 89/11-600. 89/12-722.	WD			
C		WD			
B	C/N 89/03-110. -131. -099. 89/05-240.	JF			18/05/89
A		RH			
T99					
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD DATE

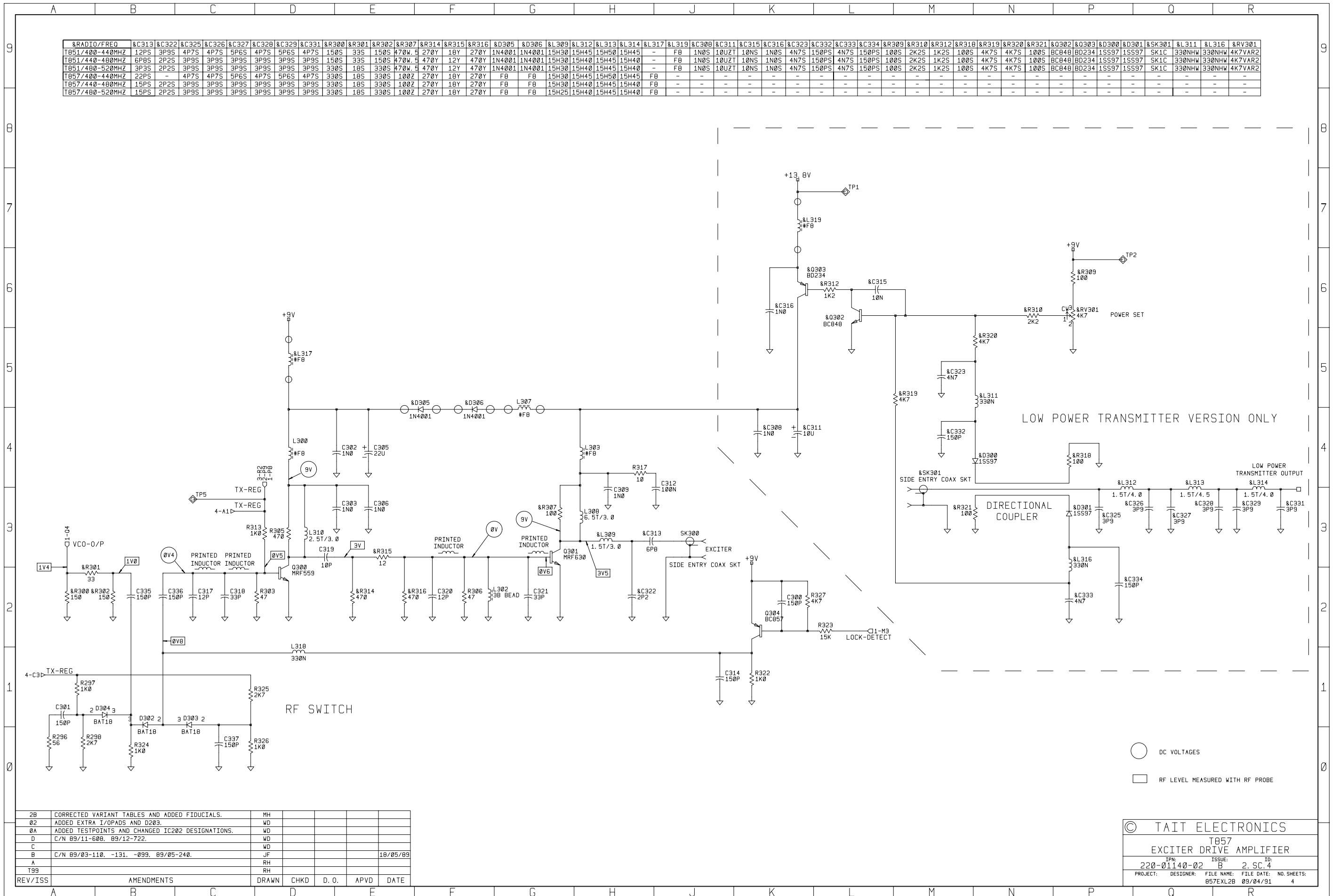
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T857  
REGULATOR

IPN: 220-01140-02 ISSUE: B 2. SC. 3

PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS:  
057EXL2B 09/04/91 4





## T857 Parts List (IPN 220-01140-04)

### How To Use This Parts List

The components listed in this parts list are divided into two main types: those with a circuit reference (e.g. C2, D1, R121, etc) and those without (miscellaneous and mechanical).

Those with a circuit reference are grouped in alphabetical order and then in numerical order within each group. Each component entry comprises three or four columns: the circuit reference, variant (if applicable), IPN and description. A number in the variant column indicates that this is a variant component which is fitted only to the product type listed.

The miscellaneous and mechanical section lists the variant and common parts in IPN order.

### Parts List Amendments

C324	4p7 (015-01470-06) added across Q301 to increase stability and power at 512 & 520MHz (92/04-289).
R123	Changed from 12K (036-15120-00) to 15K. To increase line sensitivity (92/07-530).
C324	Deleted from circuit. To increase line sensitivity & reduce Tx current (92/09-684).
#C313	(Hi Band) changed from 6p8 (015-21680-01) to 8p2. To improve power o/p at 520MHz (93/05-261).
#C322	(Hi Band) changed from 3p3 (015-21330-01) to 2p2. To improve power o/p at 520MHz (93/05-261).
C319	Changed from 10p (015-22100-01) to 22p. To improve power o/p at 520MHz (93/05-261).
C320	Changed from 12p (015-22120-01) to 6p8. To improve power o/p at 520MHz (93/05-261).
L310	Changed from 2.5T/3.0mm (052-08130-25) to 1.5T/3.0mm. To improve power o/p at 520MHz (93/05-261).
#C322	(Low Band) added (2p2). To improve power o/p at 520MHz (93/05-261).
R132,R133,	Changed from Res AI 0 ohms (030-50000-20) to wire link (94/06-276).
R134 & R135	
D106	Changed from BZT03-C33 to BZX79/C33 to conform with T856 (96/01-7008).

Ref	Var	IPN	Description	Ref	Var	IPN	Description
<b>Note:</b> %D107 and %D108 are optional level limiting diodes for special applications.				C110		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C1		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C111		015-22470-01	CAP CER 0805 CHIP 47P 5% NPO 50V
C2		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C112		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S
C3		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C113		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V
C4		015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	C115		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C5		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C118		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C6		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C119		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C9		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C121		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C10		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C123		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V
C11		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C124		015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V
C12		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	C126		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C13		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C128		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V
C14		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	C129		020-58470-02	CAP ELECT AI RDL 47M 16V 6X11MM
C15		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	C133		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V
C16		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C135		015-22470-01	CAP CER 0805 CHIP 47P 5% NPO 50V
C17		015-22560-01	CAP CER 0805 CHIP 56P 5% NPO 50V	C137		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S
C19		015-23680-08	CAP CER 0805 CHIP 680P 10% X7R 50V	C139		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C20		015-23470-08	CAP CER 0805 CHIP 470P 10% X7R 50V	C141		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C25		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	C145		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C26		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	C146		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C29		022-06330-03	CAP METAL POLYES 330N 10% 50V 5MM L/S	C147		020-57100-02	CAP ELECT AI RDL 1M 50V 5X11MM
C30		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	C148		015-05220-08	CAP CER 1206 CHIP 22N 10% X7R 50V
C33		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V	C149		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C34		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	C150		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM
C35		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	C151		015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V
C36		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C152		020-59100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C39		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C153		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C40		015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	C154		020-59100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM
C42		015-25150-08	CAP CER 0805 CHIP 15N 10% X7R 50V	C156		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C43		015-25100-08	CAP CER 0805 CHIP 10N 10% X7R 50V	&C157	WB	015-21150-01	CAP CER 0805 CHIP 1P5 +/-0.25P NPO 50V
C44		015-23220-01	CAP CER 0805 CHIP 220P 5% NPO 50V	&C157	NB	015-21470-01	CAP CER 0805 CHIP 4P7 +/-0.25P NPO 50V
C45		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V	C158		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C46		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	C160		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C101		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	C161		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
C102		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C162		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C103		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S	C163		020-07470-92	CAP BI-POLAR RADL 4M7 50V 6X11MM 5MM L/S
C104		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C164		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V
C105		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C166		015-05470-08	CAP CER 1206 CHIP 47N 10% X7R 50V
C106		015-24220-08	CAP CER 0805 CHIP 2N2 10% X7R 50V	C209		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM
C107		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S	C212		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
C108		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C213		025-08100-02	CAP TANT BEAD 10M 10% 16V
C109		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	C214		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
				C215		025-08100-02	CAP TANT BEAD 10M 10% 16V
				C216		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V
				C217		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
				C218		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V
				C219		020-09470-07	CAP 470M 16V 20% ELEC VERT 8*20 3.5MM L/S

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C220		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V	PL100		240-00020-67	HEADER 6WAY 2X3 PCB MTG STD
C221		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	PL101		240-00020-67	HEADER 6WAY 2X3 PCB MTG STD
C222		020-59100-06	CAP ELECT AI RDL 100M 16V 6.3X11MM	PL102		240-00020-64	HEADER 10WAY 2ROW STRAIGHT PCB MTG (5*2)
C223		020-07220-02	CAP ELECT RADL 2M2 50V 5X11MM 5MM L/S	PL103		240-00020-67	HEADER 6WAY 2X3 PCB MTG STD
C224		025-07330-01	CAP TANT BEAD 3M3 35V	PL201		240-00020-59	HEADER 3 WAY 1 ROW PCB MTG
C225		015-24470-08	CAP CER 0805 CHIP 4N7 10% X7R 50V	Q1		000-10057-10	(S) XSTR SMD MMBR571 NPN SOT-23 UHF LO
C226		020-57100-02	CAP ELECT AI RDL 1M 50V 5X11MM	Q5		000-10008-48	(S) XSTR SMD BCW60/BC848B215 NPN SOT23 AF
C227		020-58100-03	CAP ELECT AI RDL 10M 50V 5X11MM	Q6		000-10008-57	(S) XSTR SMD BCW70/BC857-215 PNP SOT23 AF
C228		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	Q7		000-10008-48	(S) XSTR SMD BCW60/BC848B215 NPN SOT23 AF
C229		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	Q8		000-10008-48	(S) XSTR SMD BCW60/BC848B215 NPN SOT23 AF
C230		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	Q101		000-10008-48	(S) XSTR SMD BCW60/BC848B215 NPN SOT23 AF
C231		015-23120-01	CAP CER 0805 CHIP 120P 5% NPO 50V	Q102		000-10008-57	(S) XSTR SMD BCW70/BC857-215 PNP SOT23 AF
C232		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	Q103		000-10008-17	(S) XSTR SMD BC817-25 NPN SOT-23 AF LO PWR
C233		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	Q104		000-10008-48	(S) XSTR SMD BCW60/BC848B215 NPN SOT23 AF
C234		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	Q105		000-10008-17	(S) XSTR SMD BC817-25 NPN SOT-23 AF LO PWR
C300		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	Q106		000-00011-91	(S) XSTR BD139 NPN AF PWR TO126
C301		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	Q208		000-10008-17	(S) XSTR SMD BC817-25 NPN SOT-23 AF LO PWR
C302		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	Q209		000-00011-30	(S) XSTR BC557B PNP AF TO92
C303		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	Q210		000-00012-15	(S) XSTR BD234 PNP AF PWR TO126
C305		020-08220-05	CAP ELECT RADL 22M 16V 5X11MM 5MM L/S	Q211		000-10008-07	(S) XSTR SMD BC807 PNP SOT-23 AF LO PWR
C306		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	Q212		000-10008-57	(S) XSTR SMD BCW70/BC857-215 PNP SOT23 AF
C309		015-24100-08	CAP CER 0805 CHIP 1N 10% X7R 50V	Q300		000-00005-55	(S) XSTR MRF555 NPN RF LOW POWER
C312		015-06100-08	CAP CER 1206 CHIP 100N 10% X7R 50V	Q301		000-00032-56	(S) XSTR MRF630 NPN TO-39 UHF PWR 3W
#C313	LOW	015-22220-01	CAP CER 0805 CHIP 22P 5% NPO 50V	Q304		000-10008-57	(S) XSTR SMD BCW70/BC857-215 PNP SOT23 AF
#C313	MID	015-22150-01	CAP CER 0805 CHIP 15P 5% NPO 50V	R1		036-12100-00	RES M/F 0805 CHIP 10E 5%
#C313	HI	015-21820-01	CAP CER 0805 CHIP 8P2 +/-0.25P NPO 50V	R2		036-12220-00	RES M/F 0805 CHIP 22E 5%
C314		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	R3		036-17100-00	RES M/F 0805 CHIP 1M 5%
C317		015-22120-01	CAP CER 0805 CHIP 12P 5% NPO 50V	R5		036-14100-00	RES M/F 0805 CHIP 1K 5%
C318		015-22330-01	CAP CER 0805 CHIP 33P 5% NPO 50V	R6		036-17100-00	RES M/F 0805 CHIP 1M 5%
C319		015-22220-01	CAP CER 0805 CHIP 22P 5% NPO 50V	R7		036-14330-00	RES M/F 0805 CHIP 3K3 5%
C320		015-21680-01	CAP CER 0805 CHIP 6P8 +/-0.25P NPO 50V	R9		036-13120-00	RES M/F 0805 CHIP 120E 5%
C321		015-22330-01	CAP CER 0805 CHIP 33P 5% NPO 50V	R10		036-13390-00	RES M/F 0805 CHIP 390E 5%
#C322	LOW	015-21220-01	CAP CER 0805 CHIP 2P2 +/-0.25P NPO 50V	R11		036-17100-00	RES M/F 0805 CHIP 1M 5%
#C322	MID	015-21220-01	CAP CER 0805 CHIP 2P2 +/-0.25P NPO 50V	R13		036-12180-00	RES M/F 0805 CHIP 18E 5%
#C322	HI	015-21220-01	CAP CER 0805 CHIP 2P2 +/-0.25P NPO 50V	R14		036-17100-00	RES M/F 0805 CHIP 1M 5%
C335		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	R15		036-12680-00	RES M/F 0805 CHIP 68E 5%
C336		015-23150-01	CAP CER 0805 CHIP 150P 5% NPO 50V	R16		036-17100-00	RES M/F 0805 CHIP 1M 5%
C337		015-22180-01	CAP CER 0805 CHIP 18P 5% NPO 50V	R18		036-12100-00	RES M/F 0805 CHIP 10E 5%
D4		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R19		036-17100-00	RES M/F 0805 CHIP 1M 5%
D5		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R20		036-17100-00	RES M/F 0805 CHIP 1M 5%
D6		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R21		036-12220-00	RES M/F 0805 CHIP 22E 5%
D100		001-10000-56	(S)DIODE SMD BAW56 DUAL SW SOT-23COM AN	R22		036-12220-00	RES M/F 0805 CHIP 22E 5%
D101		001-10000-99	(S) DIODE SMD BAV99 DUAL SWITCH SINGLE INLI	R25		036-15120-00	RES M/F 0805 CHIP 12K 5%
D102		001-10000-56	(S)DIODE SMD BAW56 DUAL SW SOT-23COM AN	R29		036-16470-00	RES M/F 0805 CHIP 470K 5%
D103		001-10000-56	(S)DIODE SMD BAW56 DUAL SW SOT-23COM AN	R30		036-13100-00	RES M/F 0805 CHIP 100E 5%
D104		001-10000-99	(S) DIODE SMD BAV99 DUAL SWITCH SINGLE INLI	R32		036-14100-00	RES M/F 0805 CHIP 1K 5%
D106		001-00015-29	(S) DIODE ZENER 33V 0.4W BZX79/C33	R35		036-15100-00	RES M/F 0805 CHIP 10K 5%
D203		001-00011-60	(S) DIODE SR2607 6A/30V	R36		036-16470-00	RES M/F 0805 CHIP 470K 5%
D204		001-10000-70	((S)DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R37		036-15100-00	RES M/F 0805 CHIP 10K 5%
D205		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R38		036-15100-00	RES M/F 0805 CHIP 10K 5%
D206		001-10000-99	(S) DIODE SMD BAV99 DUAL SWITCH SINGLE INLI	R39		036-16470-00	RES M/F 0805 CHIP 470K 5%
D207		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R40		036-16470-00	RES M/F 0805 CHIP 470K 5%
D208		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R42		036-14680-00	RES M/F 0805 CHIP 6K8 5%
D209		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R43		036-12220-00	RES M/F 0805 CHIP 22E 5%
D210		001-00015-17	(S) DIODE ZENER 9V1 0.4W BZX79/C9V1	R46		036-14150-00	RES M/F 0805 CHIP 1K5 5%
D211		001-10000-70	(S) DIODE SMD BAV70 DUAL SW SOT-23 COMCAT	R47		036-14100-00	RES M/F 0805 CHIP 1K 5%
D302		001-10000-18	(S) DIODE SMD BAT18 BANDSWITCH SOT-23	R48		036-14470-00	RES M/F 0805 CHIP 4K7 5%
D303		001-10000-18	(S) DIODE SMD BAT18 BANDSWITCH SOT-23	R49		036-14470-00	RES M/F 0805 CHIP 4K7 5%
D304		001-10000-18	(S) DIODE SMD BAT18 BANDSWITCH SOT-23	R50		036-15100-00	RES M/F 0805 CHIP 10K 5%
D305		065-00010-04	BEAD FERRITE F8 4X2X5MM	R51		036-15100-00	RES M/F 0805 CHIP 10K 5%
D306		065-00010-04	BEAD FERRITE F8 4X2X5MM	R52		036-15100-00	RES M/F 0805 CHIP 10K 5%
=IC1	2.5ppm	539-00010-41	TCXO 12.8MHZ +/-2.5PPM -30/+70C NDK NSA0175	R54		036-14100-00	RES M/F 0805 CHIP 1K 5%
=IC1	2ppm	539-00010-43	TCXO 12.8MHZ +/- 2PPM -10 +60C NDK TIC3002A	R55		036-13100-00	RES M/F 0805 CHIP 100E 5%
=IC1	1ppm	539-00010-44	TCXO 12.8MHZ +/-1PPM 0 TO +60C	R56		036-17100-00	RES M/F 0805 CHIP 1M 5%
&IC3	WB	002-00017-45	(S) IC SP8718 UHF 64/65 PRESC	R60		036-12330-00	RES M/F 0805 CHIP 33E 5%
&IC3	NB	002-00017-47	(S) IC SP8719 UHF 80/81 PRESC	R64		036-15150-00	RES M/F 0805 CHIP 15K 5%
IC4		002-74045-20	(S) IC 74HC4520 DUAL 4BIT SYNCRO CNTR	R65		036-16100-00	RES M/F 0805 CHIP 100K 5%
IC5		002-00017-63	(S) IC NJ8820DP FREQ SYNTHESIZER	R67		036-14270-00	RES M/F 0805 CHIP 2K7 5%
IC6		002-00012-47	(S) IC MC33078 DUAL OP AMP LO NOISE	R68		036-15560-00	RES M/F 0805 CHIP 56K 5%
IC7		002-74000-04	(S) IC 74HCU04 UNBUFF HEX INVERTER	R69		036-15100-00	RES M/F 0805 CHIP 10K 5%
IC100		002-00020-50	(S) IC 4N25A OPTOCOUPLER	R70		036-15100-00	RES M/F 0805 CHIP 10K 5%
IC101		002-00015-30	(S) IC 4053B 2CHAN MUX/DEMUX	R71		036-14560-00	RES M/F 0805 CHIP 5K6 5%
IC102		002-00014-40	(S) IC 324P QUAD OP AMP	R72		036-15150-00	RES M/F 0805 CHIP 15K 5%
IC103		002-00014-40	(S) IC 324P QUAD OP AMP	R73		036-13330-00	RES M/F 0805 CHIP 330E 5%
IC104		002-00012-40	(S) IC 358P DUAL OP AMP	R74		036-12100-00	RES M/F 0805 CHIP 10E 5%
IC201		002-00014-62	(S) IC 317L 100MA REG 3 TERMINAL TO-92	R75		036-12100-00	RES M/F 0805 CHIP 10E 5%
IC202		002-00014-40	(S) IC 324P QUAD OP AMP	R78		036-10000-00	RES M/F 0805 CHIP ZERO OHM
L1		052-08125-15	COIL A/W 1.5T/2.5MM HOR 0.8MM WIRE	R100		036-13100-00	RES M/F 0805 CHIP 100E 5%
L300		065-00010-04	BEAD FERRITE F8 4X2X5MM	RV100		040-05100-23	POT 10K LOG VERT PCB MTG 15MM SLOT SHAFT
L302		065-00010-01	BEAD FERRITE 3B 6 HOLE	R101		036-15100-00	RES M/F 0805 CHIP 10K 5%
L303		065-00010-04	BEAD FERRITE F8 4X2X5MM	R102		036-13470-00	RES M/F 0805 CHIP 470E 5%
L307		065-00010-04	BEAD FERRITE F8 4X2X5MM	R103		036-13560-00	RES M/F 0805 CHIP 560E 5%
L308		052-08130-65	COIL A/W 6.5T/3.0MM HOR 0.8MM WIRE	R104		036-13560-00	RES M/F 0805 CHIP 560E 5%
L309		052-08125-15	COIL A/W 1.5T/2.5MM HOR 0.8MM WIRE	RV104		042-05470-06	RES PRESET 47K CARBON 6MM FLAT TOP ADJ
#L309	LOW	052-08130-15	COIL A/W 1.5T/3.0MM HOR 0.8MM WIRE	R105		036-15100-00	RES M/F 0805 CHIP 10K 5%
#L309	MID	052-08130-15	COIL A/W 1.5T/3.0MM HOR 0.8MM WIRE	RV105		042-06100-06	RES PRESET 100K CARBON 6MM FLAT
#L309	HI	052-08125-15	COIL A/W 1.5T/2.5MM HOR 0.8MM WIRE	R106		036-14220-00	RES M/F 0805 CHIP 2K2 5%
L310		052-08130-15	COIL A/W 1.5T/3.0MM HOR 0.8MM WIRE	RV106		042-04470-06	RES PRESET 4K7 CARBON 6MM FLAT
L317		065-00010-04	BEAD FERRITE F8 4X2X5MM	R107		036-15100-00	RES M/F 0805 CHIP 10K 5%
L318		056-00021-04	IND FXD 330NH AXIAL	R108		036-14100-00	RES M/F 0805 CHIP 1K 5%
LED1		008-00013-32	(S) LED 3MM RED LO CURRENT NO MTG	R109		036-14390-00	RES M/F 0805 CHIP 3K9 5%
LED2		008-00013-35	(S) LED 3MM GREEN LO CURRENT NO MTG	R110		036-15100-00	RES M/F 0805 CHIP 10K 5%
PL1		240-00020-57	HEADER 10 WAY 1 ROW PCB MTG	R111		036-16390-00	RES M/F 0805 CHIP 390K 5%
				R112		036-16100-00	RES M/F 0805 CHIP 100K 5%
				R113		036-16100-00	RES M/F 0805 CHIP 100K 5%
				R115		036-14820-00	RES M/F 0805 CHIP 8K2 5%

Ref	Var	IPN	Description	Ref	Var	IPN	Description
R116		036-16100-00	RES M/F 0805 CHIP 100K 5%	R260		036-13470-00	RES M/F 0805 CHIP 470E 5%
R117		036-15100-00	RES M/F 0805 CHIP 10K 5%	R296		036-12560-00	RES M/F 0805 CHIP 56E 5%
R118		036-13560-00	RES M/F 0805 CHIP 560E 5%	R297		036-14100-00	RES M/F 0805 CHIP 1K 5%
R119		036-16100-00	RES M/F 0805 CHIP 100K 5%	R298		036-14270-00	RES M/F 0805 CHIP 2K7 5%
R120		036-16100-00	RES M/F 0805 CHIP 100K 5%	R300		036-13330-00	RES M/F 0805 CHIP 330E 5%
R121		036-16100-00	RES M/F 0805 CHIP 100K 5%	R301		036-12180-00	RES M/F 0805 CHIP 18E 5%
R122		036-15120-00	RES M/F 0805 CHIP 12K 5%	R302		036-13330-00	RES M/F 0805 CHIP 330E 5%
R123		036-15150-00	RES M/F 0805 CHIP 15K 5%	R303		036-12470-00	RES M/F 0805 CHIP 47E 5%
R124		036-14270-00	RES M/F 0805 CHIP 2K7 5%	R304		036-12560-00	RES M/F 0805 CHIP 56E 5%
R127		036-16100-00	RES M/F 0805 CHIP 100K 5%	R305		036-13470-00	RES M/F 0805 CHIP 470E 5%
R128		036-16100-00	RES M/F 0805 CHIP 100K 5%	R306		036-12470-00	RES M/F 0805 CHIP 47E 5%
R131		036-17100-00	RES M/F 0805 CHIP 1M 5%	R307		032-33100-10	RES M/F PWR 100E 5% 2W 12X4.5MM NON PREF
R132		200-00010-05	LINK WIRE T/C 0.5MM	R313		036-14100-00	RES M/F 0805 CHIP 1K 5%
R133		200-00010-05	LINK WIRE T/C 0.5MM	R314		030-53270-20	RES FILM AI 270E 5% 0.4W 4X1.6MM
R134		200-00010-05	LINK WIRE T/C 0.5MM	R315		030-52180-20	RES FILM AI 18E 5% 0.4W 4X1.6MM
R135		200-00010-05	LINK WIRE T/C 0.5MM	R316		030-53270-20	RES FILM AI 270E 5% 0.4W 4X1.6MM
R136		036-15100-00	RES M/F 0805 CHIP 10K 5%	R317		036-12100-00	RES M/F 0805 CHIP 10E 5%
R141		036-16150-00	RES M/F 0805 CHIP 150K 5%	R322		036-14100-00	RES M/F 0805 CHIP 1K 5%
R143		036-14220-00	RES M/F 0805 CHIP 2K2 5%	R323		036-15150-00	RES M/F 0805 CHIP 15K 5%
R146		036-15220-00	RES M/F 0805 CHIP 22K 5%	R324		036-14100-00	RES M/F 0805 CHIP 1K 5%
R147		036-15470-00	RES M/F 0805 CHIP 47K 5%	R325		036-14270-00	RES M/F 0805 CHIP 2K7 5%
R148		036-16150-00	RES M/F 0805 CHIP 150K 5%	R326		036-14100-00	RES M/F 0805 CHIP 1K 5%
R149		036-15470-00	RES M/F 0805 CHIP 47K 5%	R327		036-14470-00	RES M/F 0805 CHIP 4K7 5%
R150		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R151		036-14470-00	RES M/F 0805 CHIP 4K7 5%	SK1		240-04020-57	SKT 10 WAY 1ROW PCB MTG TOP ENTRY
&R152	WB	036-15220-00	RES M/F 0805 CHIP 22K 5%	SK100		240-02020-05	SKT STEREO PHONE JACK PCB MTG
&R152	NB	036-15270-00	RES M/F 0805 CHIP 27K 5%	SK300		240-02100-44	SKT COAX MINI JACK PCB MTG ANGLED
R155		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R159		036-14220-00	RES M/F 0805 CHIP 2K2 5%	SW101		232-00010-26	SWITCH PUSH SPDT RT ANGLE PCB MTG NO BU
R162		036-13680-00	RES M/F 0805 CHIP 680E 5%				
R163		036-14100-00	RES M/F 0805 CHIP 1K 5%	T100		053-00010-17	XFMR T4030 LINE MATCH POTCORE
R164		036-13680-00	RES M/F 0805 CHIP 680E 5%	T200		050-00016-31	COIL TAIT NO 631 455KHZ IF 7MM CAN
R166		036-17100-00	RES M/F 0805 CHIP 1M 5%				
R167		036-14680-00	RES M/F 0805 CHIP 6K8 5%				
R168		036-17100-00	RES M/F 0805 CHIP 1M 5%				
R169		036-16120-00	RES M/F 0805 CHIP 120K 5%	NOTE:			
R170		036-15100-00	RES M/F 0805 CHIP 10K 5%		LOW		= 400-440MHZ
R171		036-14220-00	RES M/F 0805 CHIP 2K2 5%		MID		= 440-480MHZ
R172		036-16470-00	RES M/F 0805 CHIP 470K 5%		HI		= 480-520MHZ
R173		036-15100-00	RES M/F 0805 CHIP 10K 5%			NB	= 2.5KHZ DEVIATION
R174		036-16330-00	RES M/F 0805 CHIP 330K 5%			WB	= 5KHZ DEVIATION
R175		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R176		036-16100-00	RES M/F 0805 CHIP 100K 5%			1PPM	= 1PPM TCXO
R177		036-16100-00	RES M/F 0805 CHIP 100K 5%			2PPM	= 2PPM TCXO
R178		036-15560-00	RES M/F 0805 CHIP 56K 5%			2.5PPM	= 2.5PPM TCXO
R179		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R180		036-17100-00	RES M/F 0805 CHIP 1M 5%				
R181		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R182		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R183		036-14820-00	RES M/F 0805 CHIP 8K2 5%				
&R184	WB	036-15150-00	RES M/F 0805 CHIP 15K 5%				
&R184	NB	036-15220-00	RES M/F 0805 CHIP 22K 5%				
&R185	WB	036-15470-00	RES M/F 0805 CHIP 47K 5%				
&R185	NB	036-15560-00	RES M/F 0805 CHIP 56K 5%				
R186		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R187		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R188		036-17100-00	RES M/F 0805 CHIP 1M 5%				
R189		036-13560-00	RES M/F 0805 CHIP 560E 5%				
R190		036-14220-00	RES M/F 0805 CHIP 2K2 5%				
R192		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
R194		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R195		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R196		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R197		036-14270-00	RES M/F 0805 CHIP 2K7 5%				
RV201		042-07100-06	RES PRESET 1M CARBON 6MM FLAT				
RV202		042-07100-06	RES PRESET 1M CARBON 6MM FLAT				
R224		036-13100-00	RES M/F 0805 CHIP 100E 5%				
R227		036-12100-00	RES M/F 0805 CHIP 10E 5%				
R228		036-12220-00	RES M/F 0805 CHIP 22E 5%				
R230		036-14470-00	RES M/F 0805 CHIP 4K7 5%				
R231		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R232		032-33270-00	RES M/F PWR 270E 5% 1W 12X4.5MM				
R233		032-31100-00	RES M/F PWR 1E0 5% 1W 12X4.5MM				
R234		032-31100-00	RES M/F PWR 1E0 5% 1W 12X4.5MM				
R235		036-14680-00	RES M/F 0805 CHIP 6K8 5%				
R236		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R237		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R238		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R239		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R240		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R241		036-16470-00	RES M/F 0805 CHIP 470K 5%				
R242		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R243		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R244		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R245		036-14150-00	RES M/F 0805 CHIP 1K5 5%				
R246		036-15470-00	RES M/F 0805 CHIP 47K 5%				
R247		036-16330-00	RES M/F 0805 CHIP 330K 5%				
R248		036-16120-00	RES M/F 0805 CHIP 120K 5%				
R249		036-16330-00	RES M/F 0805 CHIP 330K 5%				
R250		036-14100-00	RES M/F 0805 CHIP 1K 5%				
R251		036-13560-00	RES M/F 0805 CHIP 560E 5%				
R252		036-16100-00	RES M/F 0805 CHIP 100K 5%				
R253		036-15150-00	RES M/F 0805 CHIP 15K 5%				
R254		036-15560-00	RES M/F 0805 CHIP 56K 5%				
R255		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R256		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R258		036-15100-00	RES M/F 0805 CHIP 10K 5%				
R259		036-14150-00	RES M/F 0805 CHIP 1K5 5%				

(REFER TO PART C, SECTION 1.3)





## T857 Mechanical &amp; Miscellaneous Parts (220-01140-04)

IPN	Description	IPN	Description
012-04150-01	CAP CER F/THRU 1N5 NO LEAD C1-C15 On 15 Way D Range.	345-00040-06	SCREW M3*8MM PAN POZI ST BZ For Final Installation Kit x2.
051-00006-02	SOLDER SPRING 1.3MM A4M1877 LED1 x2, LED2 x2.	345-00040-08	SCREW M3*12MM PAN POZI ST BZ D Range Blanking Cover Mtg x2.
065-00010-13	BEAD FERRITE 7D 1.9*0.9*3.8MM STACK POLE 15 Way D Range x15.	345-00040-09	SCREW M3*6MM CSK POZI TRUNCATED HEAD ST BZ For Final Installation Kit x2.
201-00030-02	WIRE #1 T/C WIRE 7/0.2MM PVC RED 2 x70mm for LEDs.	345-00040-10	SCREW M3*6MM PAN POZI ST BZ Guide Skt to Float Plate x4, Rail x4, Final Installation Kit x2
201-00030-10	WIRE #1 T/C WIRE 7/0.2MM PVC BLACK 2 x70mm for LEDs.	345-00040-11	SCREW M3*10MM PAN POZI ST BZ Final Installation Kit x4
206-00010-11	CABLE COAX 50 OHM RG316-U PTFE 140mm SK300/Front Panel x1, 90mm Final Inst Kit x1.	345-00040-20	SCREW M3*8MM BUTTON SKT HD BLACK ZINC PHOS Front Panel Mtg x4.
220-01140-04	PCB T857 MAIN BD	349-00020-31	SCREW TAPTITE M3X10MM PAN POZI BZ N Connector Cover x4.
232-00020-26	BUTTON PUSH FOR 232-00010-26 SWITCH SW101.	349-00020-32	SCREW TAPTITE M3*8MM PAN POZI BZ PCB Mounting x8.
240-00010-55	PLUG 15 WAY D RANGE WIRE WRAP PINS PNL MTG	349-00020-43	SCREW TAPTITE M4*12MM PAN POZI BZ Top Cover Mtg x14.
240-00100-43	PLUG COAX MINI PIN PLUG CRIMP 1.5D COAX 140mm Coax Cable to SK300 x1.	349-00020-45	SCREW TAPTITE M4*20MM PAN POZI BZ Bottom Cover Mtg x14.
240-00100-46	PLUG COAX PNL JACK SUHNER 24 SMC50-2-10C 140mm Coax Cable to Front Panel x1.	352-00010-08	NUT M3 COLD FORM HEX ST BZ D Range x2, D Range Cover x2, Vco Mtg x2.
240-02010-54	SKT 15WAY DRANGE PNL MTG 105 DEG C Guide Rail Assembly Component, Part of Installation Kit x1	352-00010-29	NUT M4 NYLOC HEX Handle x2.
240-02100-46	SKT COAX ELBOW SUHNER 16SMC50-2-10C 90mm Coax Cable For Exciter/PA Connection x2	353-00010-10	WASHER M3 FLAT 7MM*0.6MM ST BZ Float Plate x4.
240-04020-62	SKT 2 WAY RECEPTL SHORTING LINK For PLs100, 101, 102, 103 & 201 x1 Each.	353-00010-11	WASHER M3 FLAT 9.5MM*0.9MM ST BZ Final Installation Kit x4.
240-04020-65	SKT JACK PIN 1.3MM PCB MTG 64 WAY SIL STRIP For SJ2-1, SJ3-1, SJ4-1 TO SJ4-5, SJ5-1 TO SJ5-5	353-00010-12	WASHER M3 SPRING BZ D Range x2, D Range Cover x2.
303-11168-00	CHASSIS HSINK PNTD COMPLT A1M2364 800 SERIES	362-00010-23	GASKET SIL INSULATING TO-220 CLIP MTD Q210 x1.
303-23055-00	COVER A4M955 N CONN HOLE T857 Blanking Plate On Rear For N Connector x1.	362-00010-33	GROMMET LED MTG 3MM LO CURRENT LEDS
303-23118-00	COVER A3M2247 D RANGE HOLE T855/7 Blanking Plate On Rear For Extra D Range Connector x1.	365-00011-53	LABEL WHITE RW2365/1 104*37MM SPECIAL ADHSIVE Item Description On Outside Of Box x1.
303-50074-00	CLIP A3M2246 SPRING XSTR CLAMP T857 Q210 x1.	365-00100-03	LABEL BLANK 10.8*30MM S/A METLSD POLYES
303-50078-00	CLIP A4M2630 0.1MM SPRIWIRE CABLE CLAMP T800 For Securing 140mm Coax Cable x1	365-00100-20	LABEL WHITE S/A 28*11MM QUIKSTIK RW718/4 Rev No x1, EPROM x1, T100 x1, 'Test Report Inside' x1.
306-01010-00	FERRULE A4M948 HANDLE FXD EQUIP For Handle x2.	365-01391-01	LABEL 30*10.8MM TAMPERMARK VOID MATT FCC Rules Pt 15 x1, FCC ID x1, Aust DOTC Cert x1, Ser No x1, Canadian DOC x1.
308-01007-00	HANDLE A4M949 FXD EQUIP	365-01500-00	LABEL 24*12MM CE CONFORMITY
312-01052-00	LID TOP PNTD COMPL A1M2364 800 SERIES	399-00010-51	BAG PLASTIC 75*100MM
312-01053-00	LID BOTTOM PNTD COMPL A1M2364 800 SERIES	400-00010-07	SLEEING 2MM SIL RUBBER
316-06364-01	PNL FRT COMPL T857 EX A3M2218/2	410-01081-00	CRTN T800 MODULE KIWI REF22860 PRTD
316-85015-01	PIN A4M775 LOCATING D RANGE For Securing D Range x2.	410-01082-00	CRTN 10 T800 KIWI REF24417 423X410X360
316-85099-00	PLATE FLOAT A2M2248 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
316-85100-00	PLATE FRT A2M2249 DUAL D RANGE SKT BOX Guide Rail Assembly Component, Part of Installation Kit x1		
318-01014-00	RAIL A2M2214 FOR 800 SERIES FXD EQUIP Guide Rail Assembly Component, Part of Installation Kit x2		
319-01152-00	SHIELD A3M2250 F/THRU MTG T857 Attached To D Range Plug x1.		





## T857 Grid Reference Index (IPN 220-01140-04)

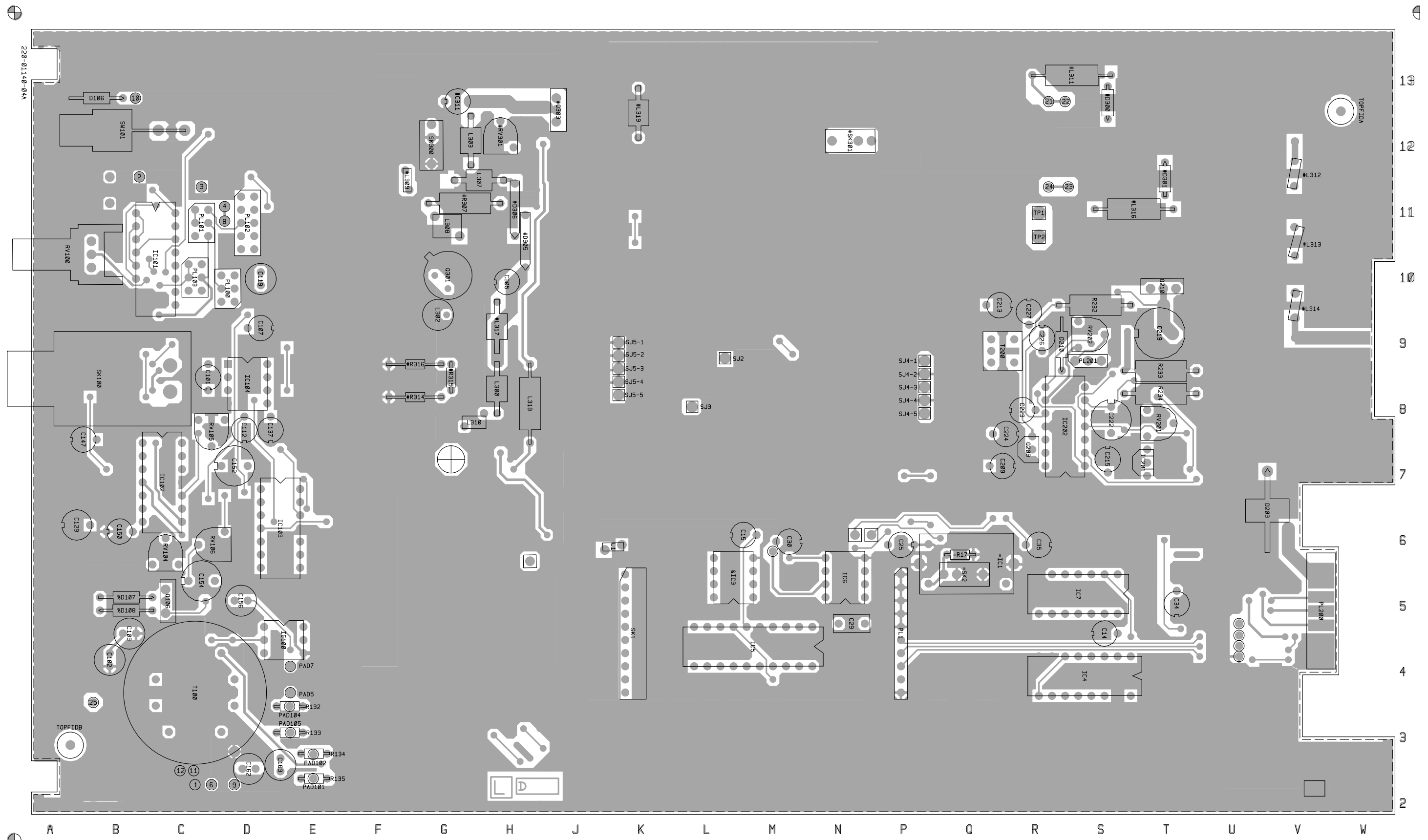
### How To Use This Grid Reference Index

The first digit in the PCB layout reference is a "1" or "2", indicating the top or bottom side layout respectively, and the last two characters give the location of the component on that diagram.

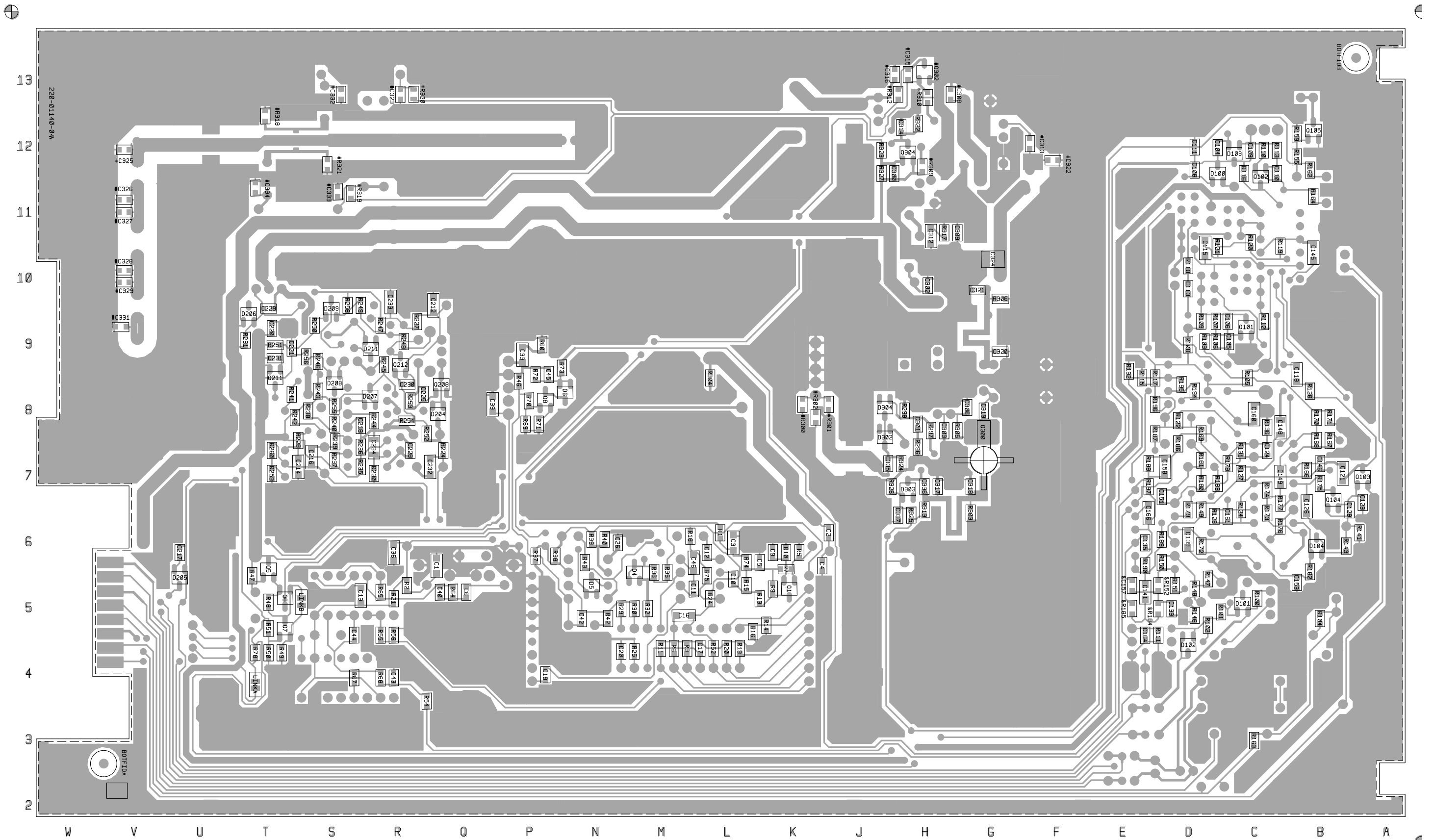
The first digit in the circuit diagram reference is the sheet number, and the last two characters give the location of the component on that sheet.

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
C1	2:Q6	1-A8	C145	2:B10	2-D5	C335	2:J7	4-B2	IC101	1:B11	2-F4
C2	2:K6	1-B4	C146	2:B7	2-G6	C336	2:H7	4-B2	IC102	1:B8	2-H5
C3	2:L6	1-B5	C147	1:B8	2-H4	C337	2:H6	4-C0			2-K5
C4	2:K6	1-B4	C148	2:C8	2-H2	D4	2:M6	1-I3			2-F1
C5	2:L6	1-B5	C149	2:C7	2-J5			1-J3			2-I2
C6	2:Q5	1-B7	C150	1:B6	2-J6	D5	2:N5	1-L3			2-H0
C9	2:K6	1-C4	C151	2:D7	2-K2			1-L3	IC103	1:D7	2-J2
C10	2:L6	1-D5	C152	1:D7	2-K2	D6	2:P8	1-M7			2-M4
C11	2:M5	1-E5	C153	2:B5	2-K6			1-M7			2-P4
C12	2:L6	1-E4	C154	1:C5	2-L1	D100	2:D12	2-C2			2-P1
C13	2:S5	1-E8	C156	1:D5	2-M6			2-E2			2-I0
C14	1:S5	1-F8	&C157	2:E5	2-Q4	D101	2:C5	2-C1	IC104	1:D9	2-P2
C15	1:M6	1-G4	C158	2:D7	2-P0			2-D1			2-L0
C16	2:M5	1-G4	C160	2:C8	2-Q3	D102	2:D5	2-C2			2-J0
C17	2:L4	1-G2	C161	2:C6	2-G1			2-D2	IC201	1:T7	3-A2
C19	2:P4	1-G2	C162	1:D3	2-B3	D103	2:C12	2-D3	IC202	1:S7	3-H2
C20	2:N4	1-H3	C163	1:E3	2-C3			2-E3			3-J2
C25	1:P6	1-J5	C164	2:E5	2-E0	D104	2:B6	2-L5			3-M1
C26	2:N6	1-J2	C166	2:E7	2-Q1			2-L5			3-C2
C29	1:N5	1-K5	C209	1:R7	3-J6	D106	1:B13	2-P8			3-G1
C30	1:M6	1-N3	C212	2:R10	3-Q7	%D107	1:C5	2-C4	LINKB	2:T5	1-N7
C33	2:P9	1-L5	C213	1:R10	3-Q7	%D108	1:B5	2-D4	LINKA	2:T4	1-Q8
C34	1:T5	1-M8	C214	2:T7	3-A2	D203	1:V7	3-E6	L1	1:K6	1-B4
C35	1:R6	1-Q7	C215	1:S7	3-C2	D204	2:Q8	3-K7	L300	1:H8	4-D4
C36	2:R6	1-P7	C216	2:S7	3-C3			3-K6	L302	1:G10	4-F2
C39	2:Q8	1-Q9	C217	2:U6	3-C5	D205	2:U6	3-C6	L303	1:G12	4-H4
C40	2:Q5	1-C7	C218	2:S8	3-H1			3-C6	L307	1:G12	4-G4
C42	2:N5	1-K5	C219	1:T9	3-F3	D206	2:T10	3-D4	L308	1:G11	4-H3
C43	2:R4	1-G6	C220	2:T9	3-F3			3-D5	#L309	1:F12	4-H3
C44	2:S5	1-H7	C221	2:T9	3-F3	D207	2:R8	3-H3	L310	1:G8	4-D3
C45	2:P9	1-M5	C222	1:S8	3-I3			3-I2	L317	1:H9	4-D5
C46	2:M6	1-D5	C223	1:R8	3-M1	D208	2:S8	3-K3	L318	1:H9	4-D1
C101	1:C9	2-C7	C224	1:R8	3-K6			3-K3	PAD1	1:C2	2-P8
C102	1:B4	2-D3	C225	2:R8	3-M6	D209	2:S10	3-N2	PAD2	1:B12	2-P9
C103	1:B5	2-D3	C226	1:R9	3-M6			3-N2	PAD3	1:C11	2-A2
C104	2:D12	2-D3	C227	1:R10	3-Q7	D210	1:R9	3-K1	PAD4	1:D11	2-P6
C105	2:C9	2-D6	C228	2:R7	3-D3	D211	2:R9	3-L1	PAD5	1:E4	2-M6
C106	2:C9	2-D7	C229	2:T10	3-E4			3-L1	PAD6	1:D2	2-P6
C107	1:D9	2-D8	C230	2:R8	3-N7	D302	2:J8	4-B1	PAD7	1:E4	2-M6
C108	2:D12	2-E2	C231	2:T9	3-P2	D303	2:H7	4-C1	PAD8	1:D11	2-P6
C109	2:C12	2-E3	C232	2:R7	3-J6	D304	2:J8	4-B1	PAD9	1:D2	2-P7
C110	2:C12	2-E4	C233	2:R10	3-P7	D305	1:H10	4-F4	PAD10	1:B13	2-P8
C111	2:D12	2-F2	C234	2:R8	3-C2	D306	1:H11	4-F4	PAD11	1:C3	2-P9
C112	1:D8	2-F6	C300	2:J12	4-J2	=IC1	1:R6	1-B8	PAD12	1:C3	2-P9
C113	2:D10	2-F2	C301	2:H8	4-A1	&IC3	1:M5	1-E4	PAD15	1:U4	1-Q1
C115	2:D11	2-G6	C302	2:H10	4-E4	IC4	1:T4	1-F7	PAD16	1:U5	1-Q0
C118	2:B9	2-G7	C303	2:H8	4-E3			1-G8	PAD17	1:U5	1-Q0
C119	1:D10	2-H3	C305	1:H10	4-E4	IC5	1:N5	1-F3	PAD20	1:U4	1-Q0
C121	2:B7	2-H6	C306	2:G8	4-E3	IC6	1:N5	1-K5	PAD21	1:R13	5-I5
C123	2:A7	2-J7	C309	2:H11	4-H3			1-K3	PAD22	1:S13	5-I4
C124	2:C7	2-I1	C312	2:H11	4-I3			1-N3	PAD23	1:S11	5-G2
C126	2:B7	2-H0	#C313	2:F12	4-H3	IC7	1:S6	1-E8	PAD24	1:R11	5-G2
C128	2:B7	2-J7	C314	2:H12	4-I1			1-D7	PAD25	1:B4	2-P7
C129	1:A6	2-K7	C317	2:H7	4-C2			1-D7	PAD101	1:E2	2-A3
C133	2:D5	2-N4	C318	2:G7	4-C2			1-E7	PAD102	1:E3	2-A3
C135	2:E6	2-Q4	C319	2:G8	4-D3			1-G7	PAD104	1:E4	2-A1
C137	1:D8	2-Q1	C320	2:G9	4-F2			1-H7	PAD105	1:E3	2-A0
C139	2:D6	2-I0	C321	2:G10	4-G2			1-I7	PL1	1:P6	1-Q1
C141	2:E5	2-P5	#C322	2:F12	4-H2	IC100	1:D5	2-E1			1-Q0

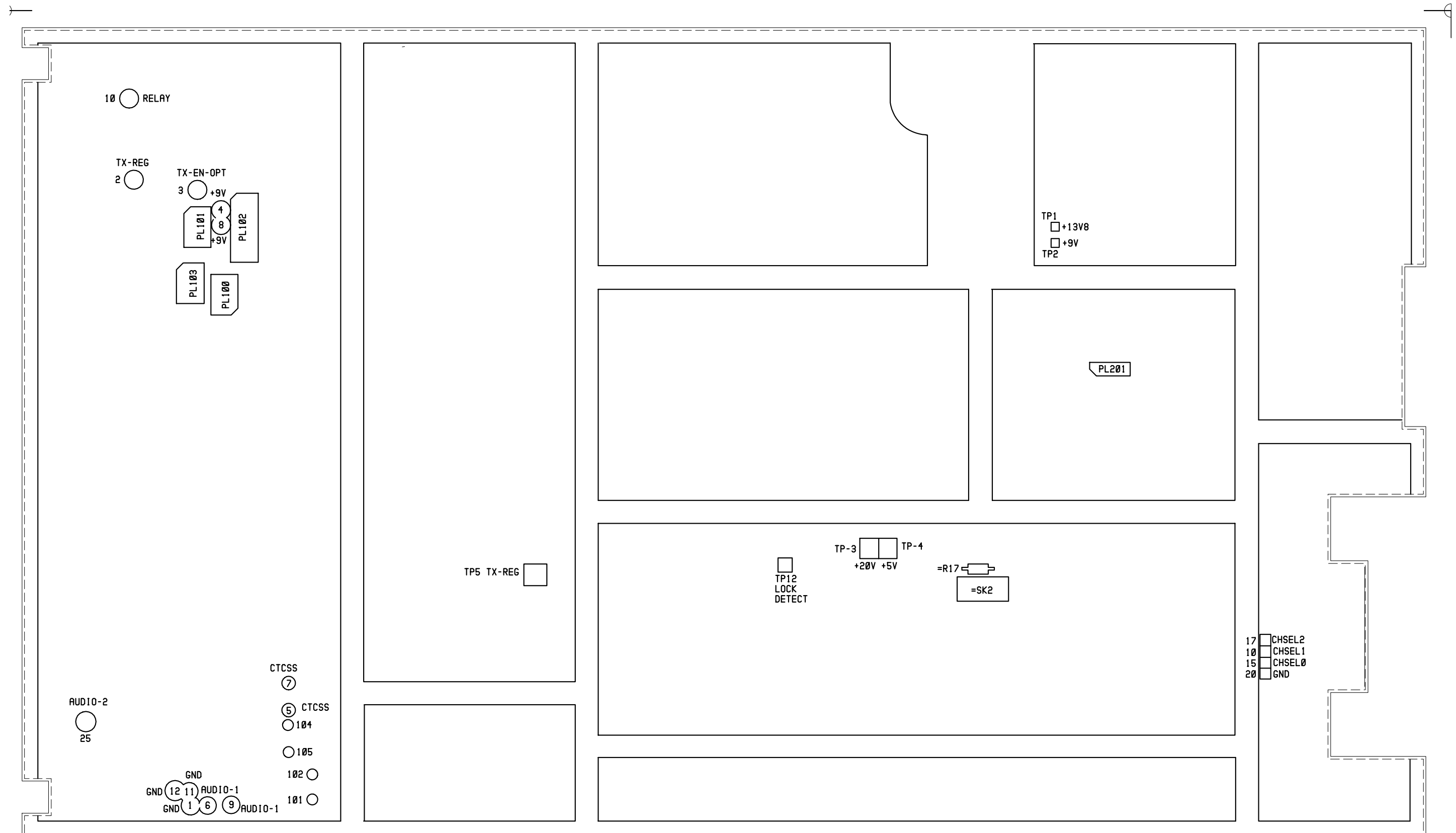
Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
		1-Q0	R9	2:K5	1-C5	R127	2:C7	2-I3	R249	2:S10	3-N2
		1-Q2	R10	2:K6	1-C4	R128	2:B8	2-H7	R250	2:S9	3-Q2
		1-Q2	R11	2:M4	1-C1	R131	2:C7	2-I2	R251	2:T9	3-Q2
		1-Q3	R13	2:L5	1-C5	R132	1:E4	2-B2	R252	2:R8	3-L5
		1-Q2	R14	2:K5	1-C1	R133	1:E3	2-B1	R253	2:R8	3-M6
		1-Q2	R15	2:L5	1-C5	R134	1:E3	2-B3	R254	2:R8	3-N5
		1-Q1	R16	2:L5	1-D1	R135	1:E2	2-B3	R255	2:S8	3-H3
		1-Q1	=R17	1:Q6	1-B7	R136	2:C8	2-J1	R256	2:S9	3-K3
PL100	1:D10	2-F8	R18	2:M6	1-D6	R141	2:A6	2-J7	R258	2:S10	3-N2
		2-E7	R19	2:L4	1-D1	R143	2:B6	2-K7	R259	2:T7	3-B1
		2-E7	R20	2:L4	1-D1	R146	2:D5	2-L6	R260	2:T7	3-B2
		2-E8	R21	2:R5	1-F8	R147	2:D6	2-L1	R296	2:H8	4-A0
		2-F7	R24	2:L5	1-G5	R148	2:D5	2-M5	R297	2:H8	4-A1
		2-F7	R25	2:M4	1-G3	R149	2:D7	2-M5	R298	2:H8	4-A0
PL101	1:C11	2-F3	R29	2:N5	1-H3	R150	2:D6	2-M4	R300	2:K8	4-A2
		2-F3	R30	2:M5	1-H3	R151	2:D5	2-N4	R301	2:K8	4-A2
		2-F3	R32	2:M5	1-I3	&R152	2:E5	2-N5	R302	2:K8	4-B2
		2-G3	R35	2:M6	1-I3	R155	2:B12	2-Q8	R303	2:G7	4-D2
		2-G3	R36	2:M6	1-I3	R159	2:B12	2-Q8	R304	2:L9	1-A4
		2-G3	R37	2:P6	1-I5	R162	2:B12	2-P9	R305	2:H8	4-D3
PL102	1:D11	2-G3	R38	2:P6	1-J6	R163	2:C3	2-Q7	R306	2:G10	4-F2
		2-H3	R39	2:N6	1-J3	R164	2:B11	2-P6	R307	1:H11	4-G3
		2-H3	R40	2:N6	1-J2	R166	2:B7	2-H6	R313	2:H7	4-D3
		2-H3	R42	2:N5	1-K5	R167	2:B8	2-H4	R314	1:G8	4-E2
		2-H3	R43	2:N6	1-N3	R168	2:B8	2-I5	R315	1:G8	4-E3
		2-G3	R46	2:P9	1-L5	R169	2:D8	2-I3	R316	1:G9	4-E2
		2-G3	R47	2:T6	1-M8	R170	2:B8	2-I4	R317	2:H11	4-H4
		2-G3	R48	2:T5	1-N8	R171	2:B8	2-I4	R322	2:H12	4-J1
PL103	1:C10	2-G1	R49	2:T4	1-N7	R172	2:D6	2-J6	R323	2:J12	4-K2
		2-H1	R50	2:T4	1-N7	R173	2:C7	2-J6	R324	2:H7	4-B0
		2-G2	R51	2:T5	1-N7	R174	2:C7	2-J5	R325	2:H6	4-C1
		2-G1	R52	2:L4	1-H4	R175	2:B7	2-J8	R326	2:J7	4-C0
		2-H2	R54	2:R4	1-G6	R176	2:C6	2-J6	R327	2:J12	4-J2
		2-H1	R55	2:R5	1-H6	R177	2:C7	2-J5	SK1	1:K6	1-B1
PL200	1:V6	3-B7	R56	2:R5	1-H6	R178	2:C7	2-J2			1-B3
		3-B7	R60	2:P9	1-L5	R179	2:D7	2-J3			1-B3
		3-B8	R64	2:Q5	1-C7	R180	2:D7	2-K1			1-B3
		3-B7	R65	2:R5	1-D7	R181	2:D7	2-K1			1-B2
		3-B8	R67	2:S4	1-G7	R182	2:B6	2-K6			1-B2
		3-B6	R68	2:R4	1-G6	R183	2:D7	2-L2			1-B2
		3-B5	R69	2:P8	1-K6	&R184	2:E5	2-Q5			1-B2
		3-B9	R70	2:P8	1-K6	&R185	2:E5	2-Q5			1-B1
		3-B9	R71	2:P8	1-L6	R186	2:D8	2-Q2			1-B1
		3-B8	R72	2:P9	1-M5	R187	2:E8	2-Q1	SJ2	1:L9	1-A4
		3-B8	R73	2:P9	1-M5	R188	2:E7	2-P0	=SK2	1:Q6	1-A8
		3-B6	R74	2:L6	1-B5	R189	2:D6	2-Q4	SJ3	1:L8	1-P8
		3-B6	R75	2:L6	1-E5	R190	2:E6	2-P4	SK100	1:B9	2-A7
		3-B7	R78	2:T4	1-Q8	R192	2:E9	2-P2	SW101	1:C12	2-B5
		3-B6	R100	2:C5	2-D0	R194	2:D8	2-Q3	SK300	1:G12	4-I3
PL201	1:S9	3-K2	RV100	1:B10	2-C5	R195	2:D8	2-P2	SJ4-1	1:P9	1-P5
		3-K2	R101	2:D5	2-D1	R196	2:E8	2-Q3	SJ4-2	1:P9	1-P9
Q1	2:K5	1-C4	R102	2:D5	2-D1	R197	2:E7	2-P0	SJ4-3	1:P8	1-P8
Q5	2:T6	1-M9	R103	2:D9	2-D7	RV201	1:T8	3-I3	SJ4-4	1:P8	1-P8
Q6	2:T5	1-N9	RV104	1:C6	2-J6	RV202	1:S9	3-L1	SJ4-5	1:P8	1-P9
Q7	2:T5	1-N7	R104	2:B5	2-D4	R224	2:Q7	3-J6	SJ5-1	1:K9	1-Q4
Q8	2:P8	1-L7	RV105	1:D8	2-Q3	R227	2:R9	3-Q7	SJ5-2	1:K9	1-Q4
Q101	2:C9	2-E7	R105	2:C9	2-D5	R228	2:T8	3-A3	SJ5-3	1:K9	1-Q4
Q102	2:C12	2-F3	R106	2:D9	2-D6	R230	2:R7	3-C2	SJ5-4	1:K8	1-Q3
Q103	2:A7	2-I7	RV106	1:D6	2-L1	R231	2:T9	3-D5	SJ5-5	1:K8	1-Q4
Q104	2:B7	2-J8	R107	2:D9	2-E7	R232	1:T10	3-D3	TP1	1:R11	4-J4
Q105	2:B12	2-Q8	R108	2:D9	2-E8	R233	1:U9	3-E5	TP2	1:R11	4-J3
Q106	1:C5	2-D1	R109	2:D9	2-E7	R234	1:U8	3-E5	TP3	1:N6	1-M3
Q208	2:Q8	3-L6	R110	2:C12	2-E5	R235	2:S7	3-E3	TP4	1:P6	1-P7
Q209	1:R7	3-D2	R111	2:E5	2-E0	R236	2:S8	3-E2	TP5	1:H6	4-C3
Q210	1:T10	3-E4	R112	2:C9	2-E4	R237	2:S7	3-G3	TP12	1:M6	1-K4
Q211	2:T9	3-P2	R113	2:C12	2-E3	R238	2:S8	3-G3	T100	1:C4	2-C3
Q212	2:R9	3-N7	R115	2:E9	2-E6	R239	2:S8	3-G2	T200	1:R9	3-L7
Q300	2:G7	4-D2	R116	2:C12	2-F3	R240	2:S8	3-H3			
Q301	1:G10	4-G3	R117	2:E9	2-F8	R241	2:T8	3-I3			
Q304	2:H12	4-J2	R118	2:D10	2-F2	R242	2:T8	3-I3			
R1	2:L6	1-B6	R119	2:C11	2-F6	R243	2:S8	3-J3			
R2	2:R5	1-B9	R120	2:C11	2-F4	R244	2:R8	3-J2			
R3	2:M4	1-B1	R121	2:D11	2-F6	R245	2:R9	3-J1			
R5	2:K6	1-B4	R122	2:D8	2-F2	R246	2:S9	3-K3			
R6	2:M4	1-B1	R123	2:D6	2-G1	R247	2:R9	3-M2			
R7	2:K6	1-C5	R124	2:C7	2-G1	R248	2:R9	3-M1			



T857 PCB Layout  
Top Side  
220-01140-04

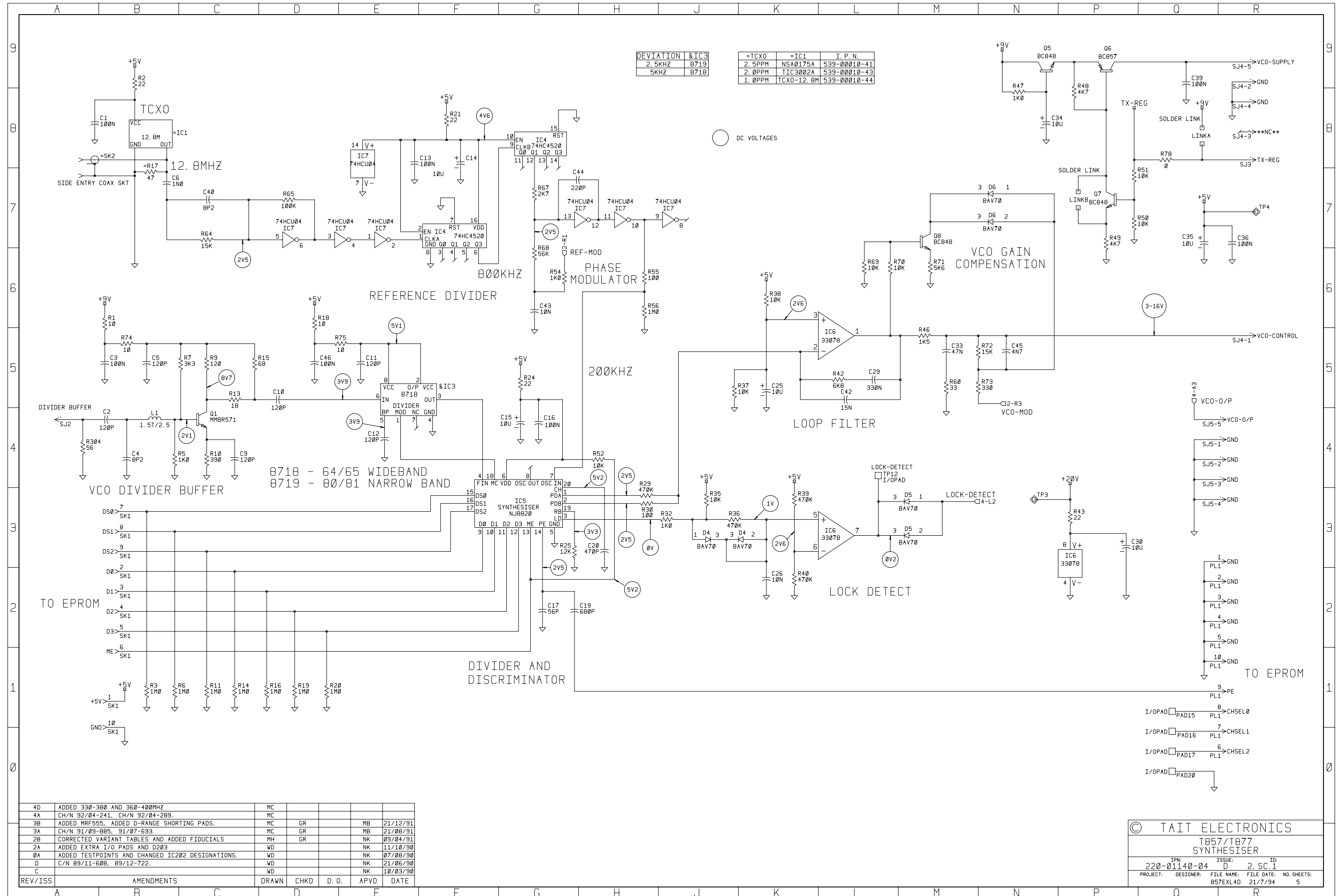


T857 PCB Layout  
Bottom Side  
220-01140-04



T857 Test Points & Options  
 Top Side  
 220-01140-04

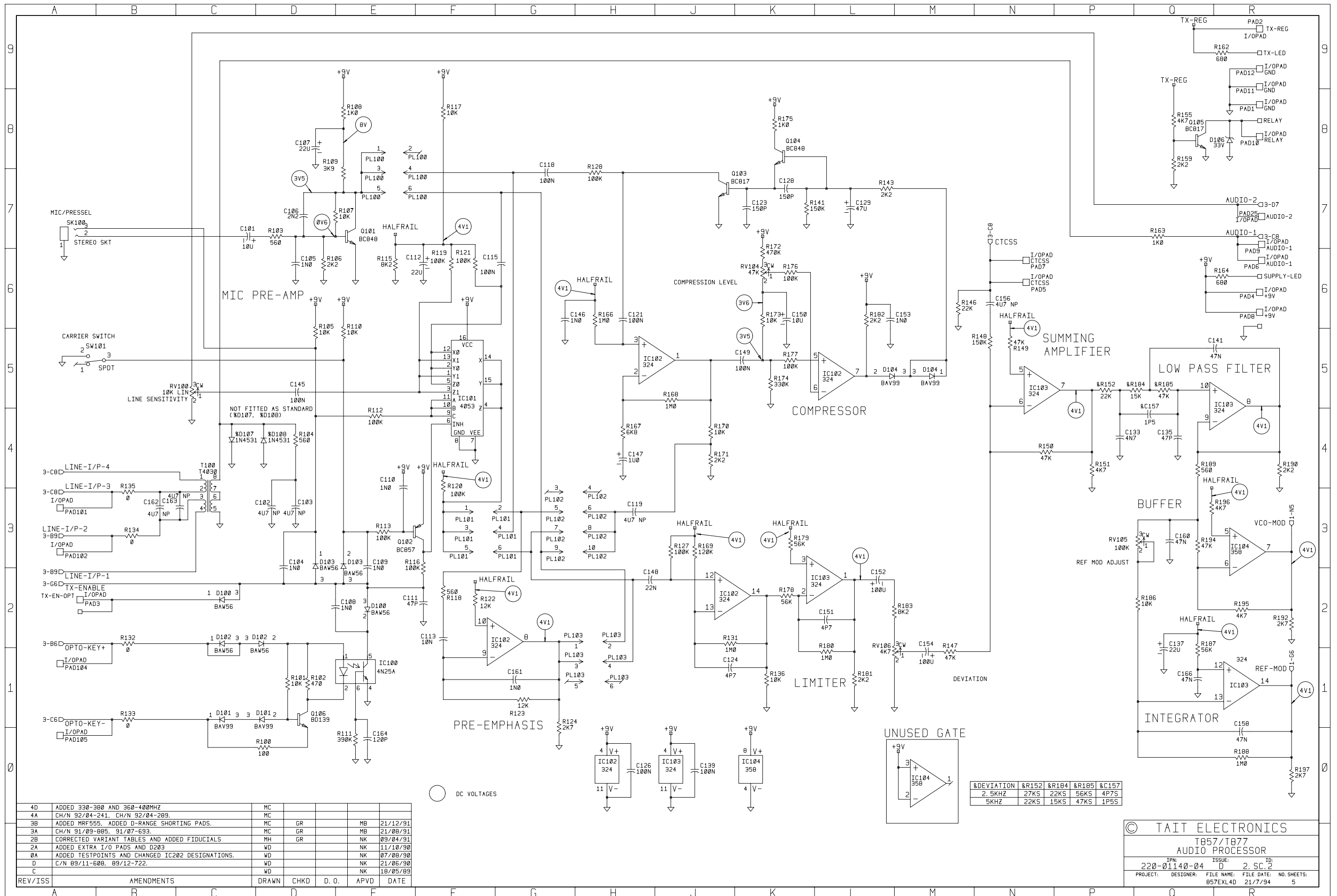




DEVIATION	&IC3	I. P. N.
2.5KHZ	8719	539-00010-41
2.0PPM	IC3002A	539-00010-43
1.0PPM	TCXO-12.8M	539-00010-44

REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE
4D	ADDED 330-380 AND 360-400MHZ	MC				
4A	CH/N 92/04-241. CH/N 92/04-289.	MC				
3B	ADDED MRF555. ADDED D-RANGE SHORTING PADS.	MC	GR	MB		21/12/91
3A	CH/N 91/09-885. 91/07-693.	MC	GR	MB		21/08/91
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS	MH	GR	NK		09/04/91
2A	ADDED EXTRA I/O PADS AND D203	WD		NK		11/10/90
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD		NK		07/08/90
D	C/N 89/11-608. 89/12-722.	WD		NK		21/06/90
C		WD		NK		10/03/90

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T857/T877 SYNTHESISER	
IPN: 220-01140-04	ISSUE: 2 SC.1
PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS:	857EXL4D 21/7/94 5

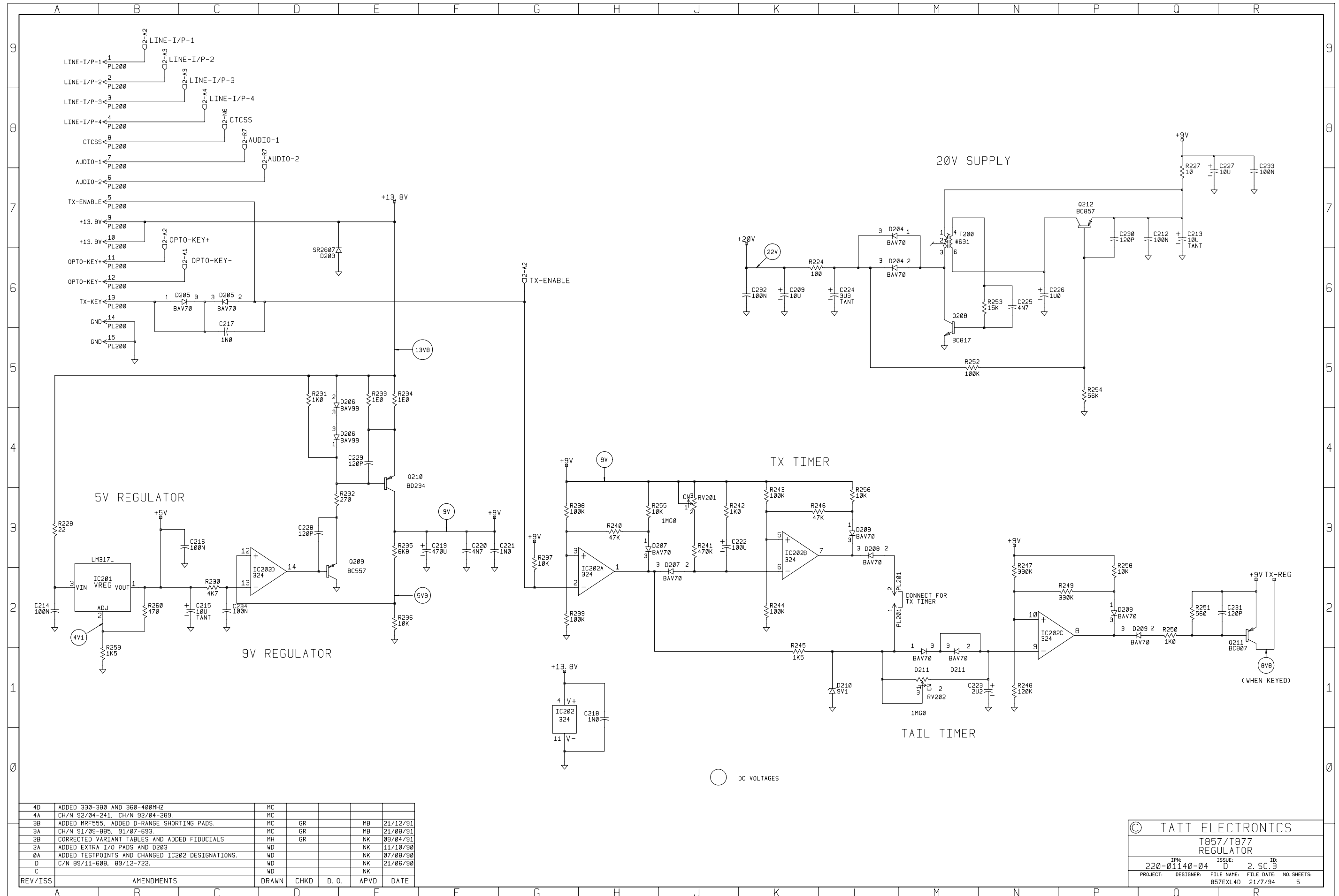


4D	ADDED 330-360 AND 360-400MHZ	MC			
4A	CH/N 92/04-241. CH/N 92/04-289.	MC			
3B	ADDED MRF555. ADDED D-RANGE SHORTING PADS.	MC	GR	MB	21/12/91
3A	CH/N 91/09-885. 91/07-693.	MC	GR	MB	21/08/91
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS	MH	GR	NK	09/04/91
2A	ADDED EXTRA I/O PADS AND D203	WD		NK	11/10/90
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD		NK	07/08/90
D	C/N 89/11-608. 89/12-722.	WD		NK	21/06/90
C		WD		NK	18/05/89
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD DATE

&R152	&R184	&R185	&C157
2.5KHZ	27KS	22KS	56KS
5KHZ	22KS	15KS	47KS
			1P55

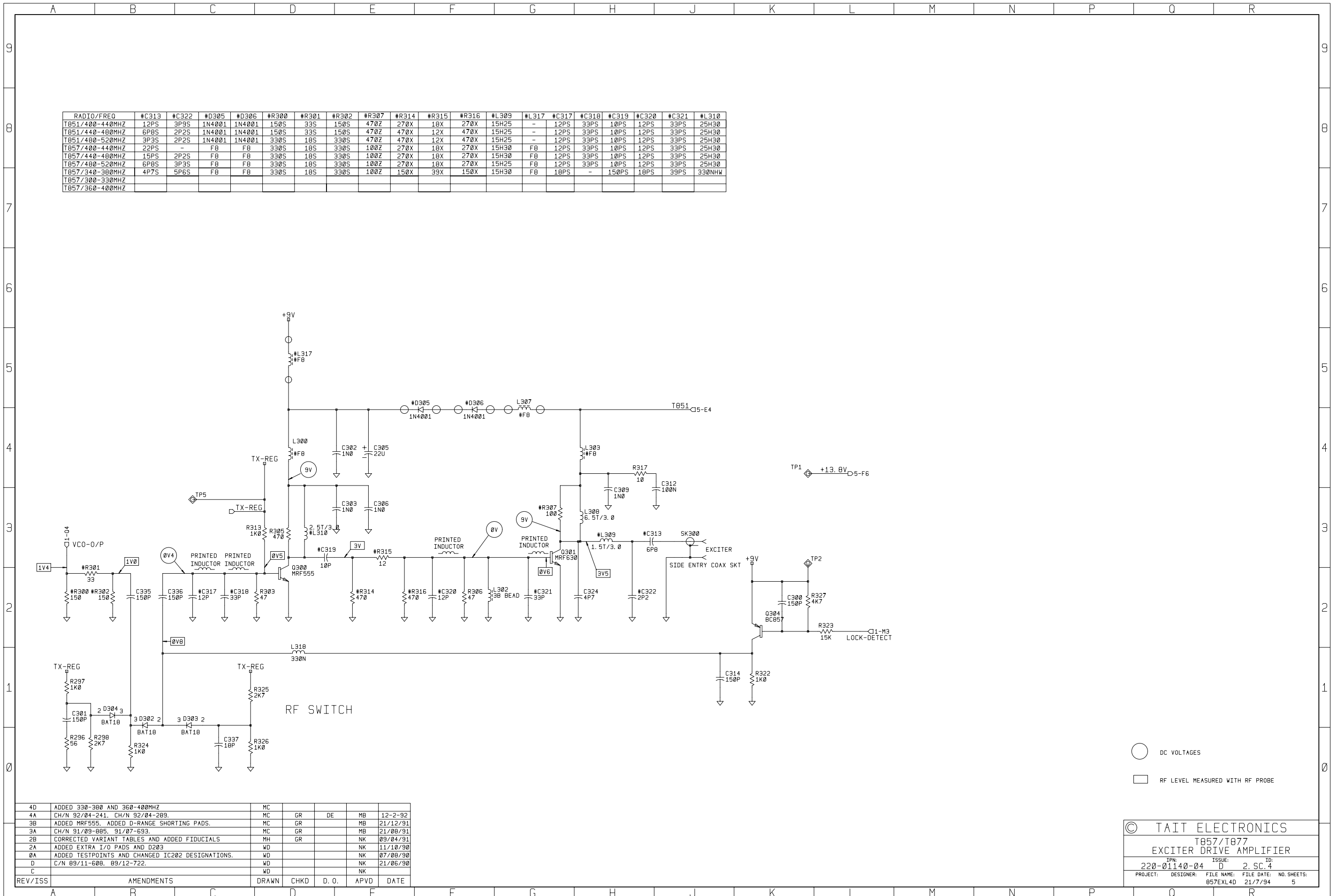
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 T857/T877  
 AUDIO PROCESSOR  
 IPN: 220-01140-04 ISSU: D 2 SC.2  
 PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS:  
 857EXL4D 21/7/94 5





4D	ADDED 330-300 AND 360-400MHZ	MC				
4A	CH/N 92/04-241. CH/N 92/04-209.	MC				
3B	ADDED MRF555. ADDED D-RANGE SHORTING PADS.	MC	GR	MB	21/12/91	
3A	CH/N 91/09-005. 91/07-693.	MC	GR	MB	21/08/91	
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS	MH	GR	NK	09/04/91	
2A	ADDED EXTRA I/O PADS AND D203	WD		NK	11/10/90	
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD		NK	07/08/90	
D	C/N 89/11-600. 89/12-722.	WD		NK	21/06/90	
C		WD		NK		
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE

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T857/T877 REGULATOR			
IPN: 220-01140-04	ISSUE: D	SC: 3	ID:
PROJECT: 220-01140-04	DESIGNER: D	FILE NAME: 857EXL4D	FILE DATE: 21/7/94
		NO. SHEETS: 5	



RADIO/FREQ	#C313	#C322	#D305	#D306	#R300	#R301	#R302	#R307	#R314	#R315	#R316	#L309	#L317	#C317	#C318	#C319	#C320	#C321	#L310
T851/400-440MHZ	12PS	3P9S	1N4001	1N4001	150S	33S	150S	470Z	270X	10X	270X	15H25	-	12PS	33PS	10PS	12PS	33PS	25H30
T851/440-480MHZ	6P8S	2P2S	1N4001	1N4001	150S	33S	150S	470Z	470X	12X	470X	15H25	-	12PS	33PS	10PS	12PS	33PS	25H30
T851/480-520MHZ	3P3S	2P2S	1N4001	1N4001	330S	10S	330S	470Z	470X	12X	470X	15H25	-	12PS	33PS	10PS	12PS	33PS	25H30
T857/400-440MHZ	22PS	-	F8	F8	330S	10S	330S	100Z	270X	10X	270X	15H30	F8	12PS	33PS	10PS	12PS	33PS	25H30
T857/440-480MHZ	15PS	2P2S	F8	F8	330S	10S	330S	100Z	270X	10X	270X	15H30	F8	12PS	33PS	10PS	12PS	33PS	25H30
T857/480-520MHZ	6P8S	3P3S	F8	F8	330S	10S	330S	100Z	270X	10X	270X	15H25	F8	12PS	33PS	10PS	12PS	33PS	25H30
T857/340-380MHZ	4P7S	5P6S	F8	F8	330S	10S	330S	100Z	150X	39X	150X	15H30	F8	18PS	-	150PS	18PS	39PS	330NH
T857/300-330MHZ																			
T857/360-400MHZ																			

4D	ADDED 330-380 AND 360-400MHZ	MC				
4A	CH/N 92/04-241. CH/N 92/04-289.	MC	GR	DE	MB	12-2-92
3B	ADDED MRF555. ADDED D-RANGE SHORTING PADS.	MC	GR		MB	21/12/91
3A	CH/N 91/09-885. 91/07-693.	MC	GR		MB	21/08/91
2B	CORRECTED VARIANT TABLES AND ADDED FIDUCIALS	MH	GR		NK	09/04/91
2A	ADDED EXTRA I/O PADS AND D203	WD			NK	11/10/90
0A	ADDED TESTPOINTS AND CHANGED IC202 DESIGNATIONS.	WD			NK	07/08/90
D	C/N 89/11-608. 89/12-722.	WD			NK	21/06/90
C		WD			NK	
REV/ISS	AMENDMENTS	DRAWN	CHKD	D. O.	APVD	DATE

○ DC VOLTAGES  
 □ RF LEVEL MEASURED WITH RF PROBE

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 T857/T877  
 EXCITER DRIVE AMPLIFIER  
 IPN: 220-01140-04 ISSUE: D ID: 2 SC 4  
 PROJECT: DESIGNER: FILE NAME: FILE DATE: NO. SHEETS:  
 857EXL4D 21/7/94 5