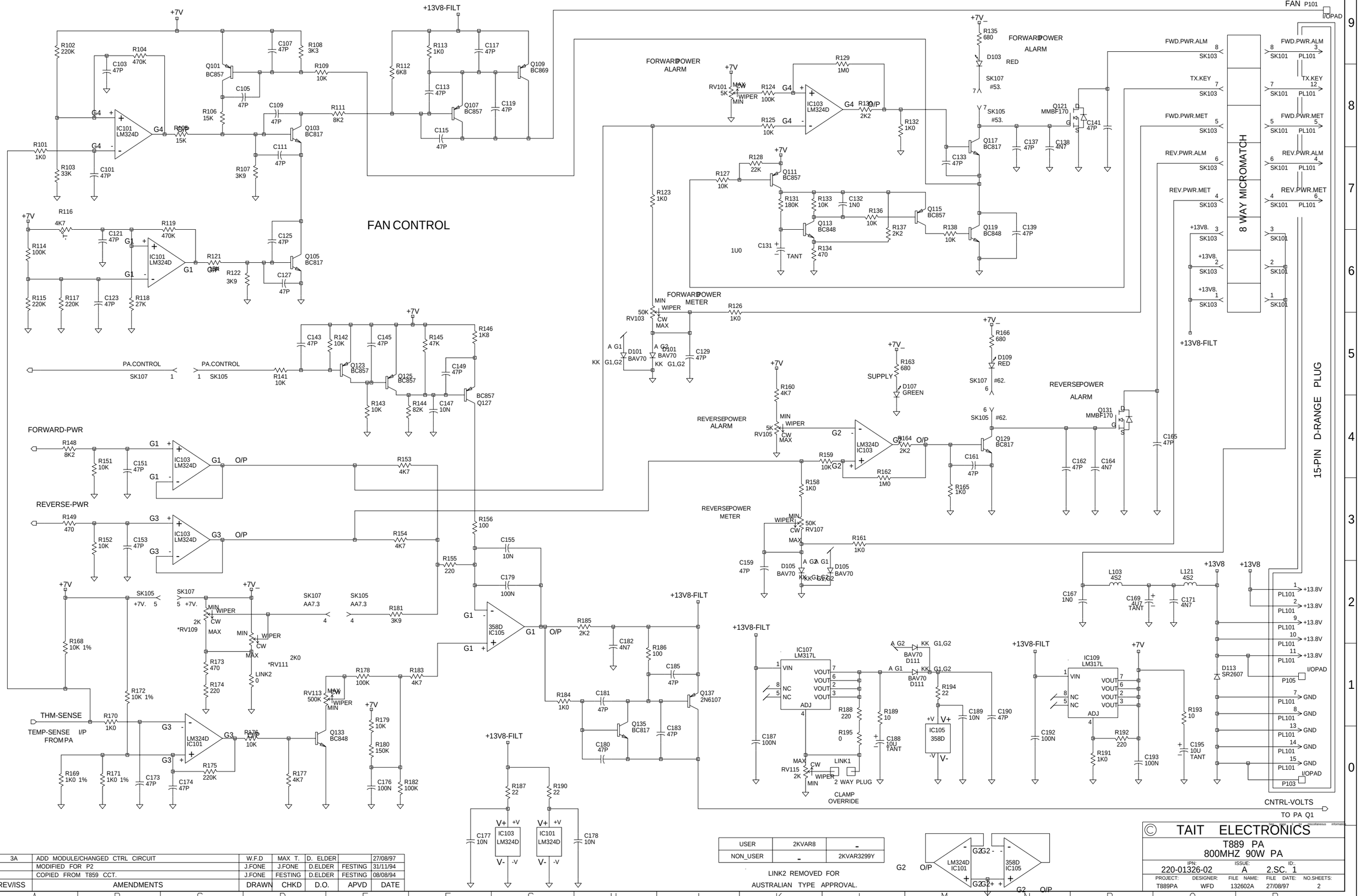


REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
3A	ADD MODULE/CHANGED CTRL CIRCUIT	W.F.D	MAX T.	D. ELDER		27/08/97
	MODIFIED FOR P2	J.FONE	J.FONE	D.ELDER	FESTING	31/11/94
	COPIED FROM T859 CCT.	J.FONE	FESTING	D.ELDER	FESTING	08/08/94

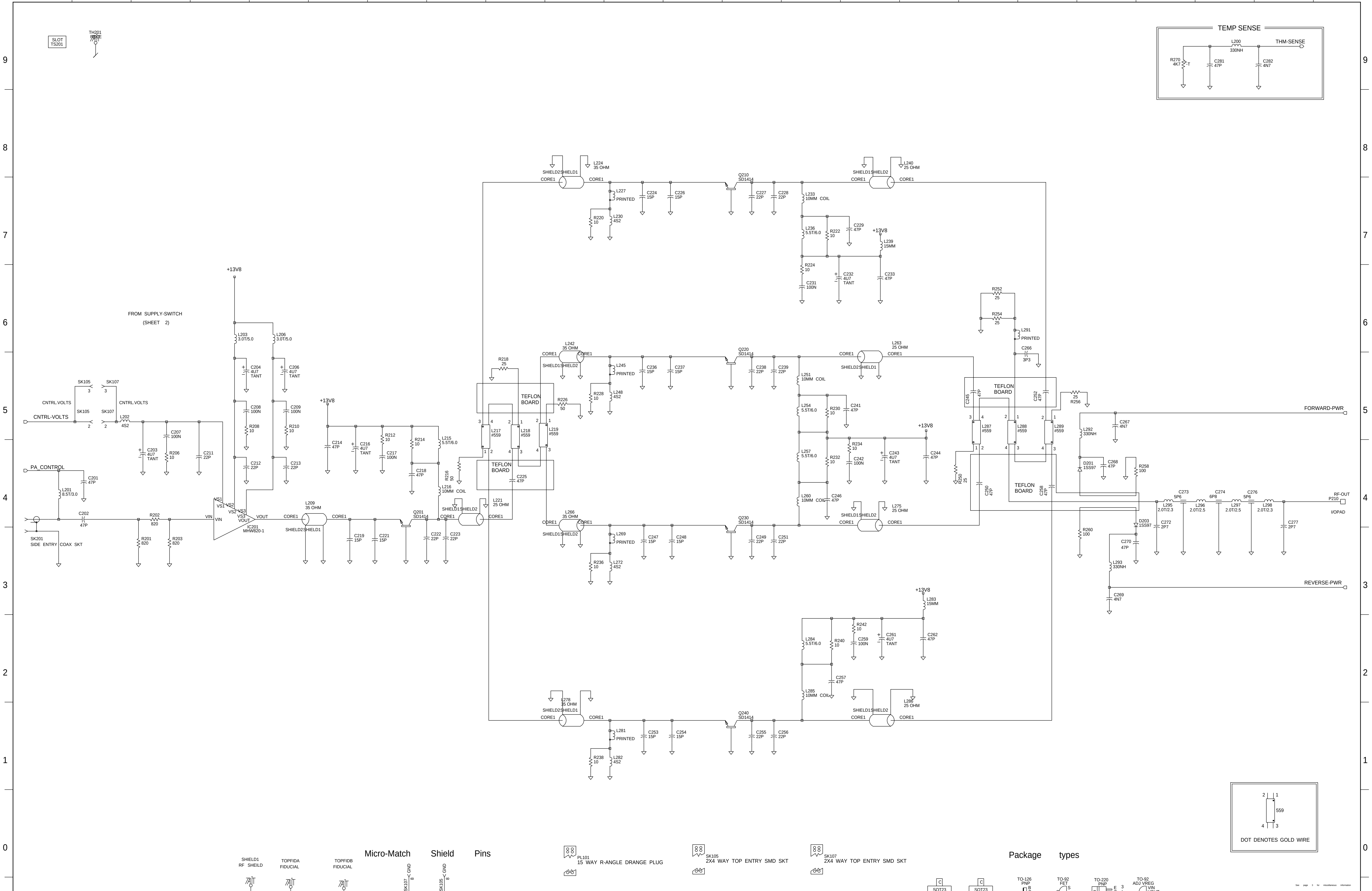
USER	2KVAR8	-
NON_USER	-	2KVAR3299Y

LINK2 REMOVED FOR AUSTRALIAN TYPE APPROVAL.

T889 PA
800MHZ 90W PA

IPN:	ISSUE:	ID:
220-01326-02	A 2.SC. 1	

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO.SHEETS:
T889PA	WFD	132602A	27/08/97	2



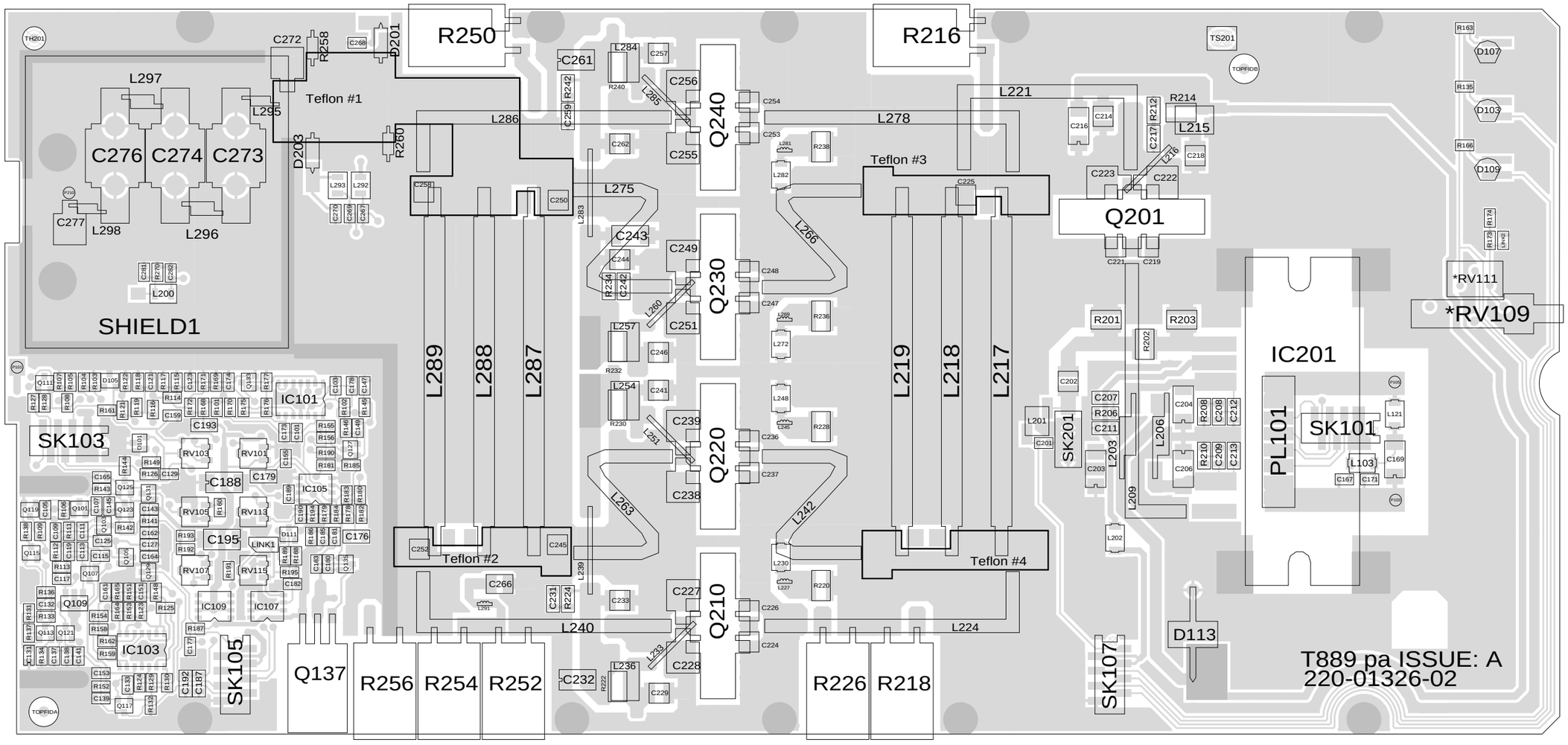
REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
3A	ADD MODULE/MOD TO CTRL CIRCUIT	W.F.D.	MAX T.	DAVE E.		27/08/97
	MODIFIED FOR P2	J. FONE	J. FONE	D. ELDER	FESTING	31/11/94
	COPIED FROM T859 CCT.	J. FONE	FESTING	D. ELDER	FESTING	08/08/94

See page 3 for miscellaneous information

T889 PA
800MHZ 90W PA

IPN:	ISSUE:	ID:
220-01326-02	A	2.SC. 2

PROJECT:	DESIGNER:	FILE NAME:	FILE DATE:	NO.SHEETS:
T889PA	WFD	132602A	27/08/97	2


R250
R216
C272
R258
D201
C268
L297
L295
Teflon #1
C276 C274 C273
C277
L298
L296
D203
R260
L286
L293
L292
C270
C269
C267
C258
C250
L275
L283
C261
C259
R242
L284
C257
R240
L285
C256
C254
C253
C255
Q240
L278
L221
Teflon #3
C225
L281
R238
L282
L266
C243
C244
R234
C242
C249
C248
C247
Q230
C251
L257
C246
R232
L260
L288
L287
L289
L219
L218
L217
L254
C241
R230
L251
C239
C236
C237
C238
Q220
L263
L242
L248
L245
R228
L272
L268
R236
C252
Teflon #2
C245
C266
L239
L240
C231
R224
C233
C227
C226
C224
C228
Q210
L236
C232
R222
C229
L233
L230
L227
R220
L224
R226
R218
Teflon #4
C216
C214
R212
C217
R214
L215
L216
C218
C223
C222
Q201
C221
C219
TS201
TOPFIDB
R163
D107
R135
D103
R166
D109
R174
R178
SHIELD1
L200
C281
R279
C282
*RV111
*RV109
R201
R203
R202
IC201
C202
C207
R206
C211
C204
R208
C208
C212
L201
C201
SK201
C203
L203
L206
C206
R210
C209
C213
L209
L202
PL101
SK101
L121
L103
C169
C167
C171
D113
SK107
SK103
IC101
C193
RV103
RV101
C188
C179
IC105
RV105
RV113
C195
LINK1
C176
RV107
RV115
IC109
IC107
IC103
SK105
Q137
R256
R254
R252
C192
C187
TOPFIDA
T889 pa ISSUE: A
220-01326-02

T889 Parts List (IPN 220-01326-04)

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. Static sensitive devices are indicated by an (S) at the start of the description column.

The miscellaneous and mechanical section lists the variant and common parts in IPN order. Where possible, a number in the legend column indicates their position in the mechanical assembly drawing.

The Parts List Amendments box below lists component changes that took place after the parts list and diagrams in this section were compiled. These changes (e.g. value changes, added/deleted components, etc.) are listed by circuit reference in alphanumeric order and supersede the information given in the parts list or diagrams. Components without circuit references are listed in IPN order.

Parts List Amendments

D101, D105	Removed from the main PCB and replaced by two 1N4148 diodes (IPN 001-50012-00) placed on the D-range PCB: one soldered between PL101 pins 5 and 7 (cathode), the other between PL101 pins 6 and 8 (cathode). To allow external power meters to read zero and still provide meter overvoltage protection (710978).
DCR1, DCR2	Changed from 100Ω (IPN 036-13100-00) to 270Ω (IPN 036-13270-00) to improve the directivity of the directional coupler (710959).
R123, R158	Changed from 1k resistors (IPN 036-14100-00) to BA592 diodes (IPN 001-10059-20) to allow external power meters to read zero (710978).
R149	Changed from 12k (IPN 036-15120-00) to 6k8 (IPN 036-14680-00) to increase the reverse power sense gain to improve alarm operation (710958).
258-00010-03	Cooling fan: some T889 PAs may be fitted with a different fan (IPN 258-00010-06). If so, a 100µH inductor (IPN 056-00021-02) may be fitted in series in the fan power feed wire with a 10µF capacitor (IPN 025-08100-03) fitted in parallel with this inductor (710921).

Parts List Amendments - Continued

This page is provided for entering future amendments to the Parts List.

Ref	Var	IPN	Description
C1		015-02470-03	CAP CER 47P 5% 500V GRH111
*C2		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
*C3		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
C4		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C6		015-02470-03	CAP CER 47P 5% 500V GRH111
C7		015-06100-08	CAP CER 1206 100N 10% X7R 50V
*C9		015-02100-07	CAP CER CHIP 10P 5% 500V MULTI
*C10		015-02100-07	CAP CER CHIP 10P 5% 500V MULTI
*C11		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
*C12		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
*C13		029-02200-02	CAP MICA 5 CASE 20P 5%
C14		029-02220-02	CAP MICA 5 CASE 22P 5%
C16		015-02470-03	CAP CER 47P 5% 500V GRH111
C17		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C18		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
*C19		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
C20		015-02150-07	CAP CER CHIP 15P 5% 500V MULTI
*C21		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
C22		029-02180-02	CAP MICA 5 CASE 18P 5%
C23		029-02220-02	CAP MICA 5 CASE 22P 5%
C24		015-02470-03	CAP CER 47P 5% 500V GRH111
C26		015-02150-07	CAP CER CHIP 15P 5% 500V MULTI
*C27		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
C28		029-02180-02	CAP MICA 5 CASE 18P 5%
C29		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C30		029-02220-02	CAP MICA 5 CASE 22P 5%
C31		015-02470-03	CAP CER 47P 5% 500V GRH111
C33		015-02150-07	CAP CER CHIP 15P 5% 500V MULTI
*C34		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
C35		029-02180-02	CAP MICA 5 CASE 18P 5%
C36		029-02220-02	CAP MICA 5 CASE 22P 5%
C37		015-02470-03	CAP CER 47P 5% 500V GRH111
C39		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
C40		015-02150-07	CAP CER CHIP 15P 5% 500V MULTI
*C41		015-02120-07	CAP CER CHIP 12P 5% 500V MULTI
C42		029-02180-02	CAP MICA 5 CASE 18P 5%
C43		029-02220-02	CAP MICA 5 CASE 22P 5%
C44		015-02470-03	CAP CER 47P 5% 500V GRH111
C46		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C47		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
C48		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C52		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C58		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C59		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
C60		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
C66		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C67		015-02470-03	CAP CER 47P 5% 500V GRH111
C68		015-02470-03	CAP CER 47P 5% 500V GRH111
C72		015-02470-03	CAP CER 47P 5% 500V GRH111
C73		015-02470-03	CAP CER 47P 5% 500V GRH111
C74		015-02470-03	CAP CER 47P 5% 500V GRH111
C75		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
C97		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C98		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C101		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C103		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C105		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C107		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C109		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C111		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C113		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C115		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C117		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C119		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C121		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C123		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C125		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C127		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C129		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C130		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C131		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM
C132		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C133		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C139		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C143		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C145		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C147		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C149		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C151		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C153		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C155		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C159		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C161		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C162		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C164		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C167		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C169		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
C171		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C173		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C174		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C176		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C177		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C178		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C179		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C180		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C181		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C182		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C183		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C185		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C187		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C189		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C190		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C192		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C193		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C195		014-08100-00	CAP TANT CHIP 10M 16VW +-20%
C196		014-07100-02	CAP TANT CHIP 1U0 3.2 X 1.6MM
C197		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C198		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C199		014-07470-00	CAP TANT CHIP 4U7 3.5 X 2.8MM
C200		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C201		014-07470-03	L) CAP TANT SMD 4U7 35V 20%
C203		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C204		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C205		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C206		015-23100-01	CAP CER 0805 100P 5% NPO 50V
C207		015-23100-01	CAP CER 0805 100P 5% NPO 50V
C210		015-23100-01	CAP CER 0805 100P 5% NPO 50V
C211		015-23100-01	CAP CER 0805 100P 5% NPO 50V
C225		015-02470-03	CAP CER 47P 5% 500V GRH111
C245		015-02470-03	CAP CER 47P 5% 500V GRH111
C250		015-02470-03	CAP CER 47P 5% 500V GRH111
C252		015-02470-03	CAP CER 47P 5% 500V GRH111
C258		015-02470-03	CAP CER 47P 5% 500V GRH111
D101		001-50012-00	S) DIODE AI 1N4148 SI
D103		008-00014-79	S)LED 3MM RED WITH WIRE
D105		001-50012-00	S) DIODE AI 1N4148 SI
D107		008-00014-80	S)LED 3MM GREEN WITH WIRE
D109		008-00014-79	S)LED 3MM RED WITH WIRE
D113		001-00012-90	S) DIODE MR2520L O-VOLT SUPP
DCC1		015-22470-01	CAP CER 0805 47P 5% NPO 50V
DCC4		015-22470-01	CAP CER 0805 47P 5% NPO 50V
DCIC1		001-10066-00	DIODE SCHOTTKY HSMS2815
DCIC2		001-10066-00	DIODE SCHOTTKY HSMS2815
DCR1		036-13270-00	RES M/F 0805 270E 5%
DCR2		036-13270-00	RES M/F 0805 270E 5%
FTC		012-04100-05	CAP F/THRU 1N SUPPR FLTR S-MTG
IC101		002-10003-24	S) IC SMD 324 4X O-AMP SO14
IC103		002-10003-24	S) IC SMD 324 4X O-AMP SO14
IC105		002-10003-58	S) IC SMD LM358 DUAL O-AMP
IC107		002-12951-00	IC SMD LP2951CM ADJ VLTGE REG
IC109		002-10003-17	(S) IC LM317L REG S0-8 100MA
L1		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L2		051-00644-00	IND HAIRPIN 17MM TALL T889
L3		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L4		051-00644-00	IND HAIRPIN 17MM TALL T889
L5		052-08160-55	COIL A/W 5.5T/6.0MM HOR 0.8MM
L6		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L7		051-00644-00	IND HAIRPIN 17MM TALL T889
L8		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L9		051-00643-00	IND HAIRPIN 10MM TALL T889
L10		052-08160-55	COIL A/W 5.5T/6.0MM HOR 0.8MM
L12		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L13		051-00619-00	COUPLR WRELNE 53MM JCKT STRGT
L14		051-00619-00	COUPLR WRELNE 53MM JCKT STRGT
L15		051-00619-00	COUPLR WRELNE 53MM JCKT STRGT
L16		051-00626-00	COAX 1/4 WAVE XFMR 35E HELI LH
L17		051-00648-00	IND ETCH HAIRPIN 14.3NH POWF
L18		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L19		051-00643-00	IND HAIRPIN 10MM TALL T889
L20		052-08160-55	COIL A/W 5.5T/6.0MM HOR 0.8MM
L21		051-00623-00	COAX 1/4 WAVE XFMR 25E HAIRPIN
L23		051-00624-00	COAX 1/4 WAVE XFMR 25E HCKY LH
L24		051-00629-00	COAX 1/4 WAVE XFMR 35E HCKY RH
L26		051-00627-00	COAX 1/4 WAVE XFMR 35E HELI RH
L27		051-00648-00	IND ETCH HAIRPIN 14.3NH POWF
L28		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L29		051-00643-00	IND HAIRPIN 10MM TALL T889
L30		052-08160-55	COIL A/W 5.5T/6.0MM HOR 0.8MM
L32		051-00621-00	COAX 1/4 WAVE XFMR 25E HELI LH
L33		051-00626-00	COAX 1/4 WAVE XFMR 35E HELI LH
L34		051-00648-00	IND ETCH HAIRPIN 14.3NH POWF
L35		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L36		051-00643-00	IND HAIRPIN 10MM TALL T889
L37		052-08160-55	COIL A/W 5.5T/6.0MM HOR 0.8MM
L39		051-00622-00	COAX 1/4 WAVE XFMR 25E HELI RH
L40		051-00619-00	COUPLR WRELNE 53MM JCKT STRGT
L41		051-00619-00	COUPLR WRELNE 53MM JCKT STRGT
L42		051-00619-00	COUPLR WRELNE 53MM JCKT STRGT
L43		051-00628-00	COAX 1/4 WAVE XFMR 35E HCKY LH
L44		051-00648-00	IND ETCH HAIRPIN 14.3NH POWF
L45		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L46		051-00643-00	IND HAIRPIN 10MM TALL T889
L47		052-08160-55	COIL A/W 5.5T/6.0MM HOR 0.8MM
L49		051-00645-00	COAX 1/4 WAVE XFMR 25E HCKY RH
L50		056-10330-02	(L) IND SMD 330NH
L51		056-10330-02	(L) IND SMD 330NH
L52		056-10330-02	(L) IND SMD 330NH
L55		051-00646-00	IND ETCHED HAIRPIN 13NH LPF
L57		051-00647-00	IND ETCHED HAIRPIN 14.6NH LPF
L59		051-00647-00	IND ETCHED HAIRPIN 14.6NH LPF
L61		051-00646-00	IND ETCHED HAIRPIN 13NH LPF

Ref	Var	IPN	Description
L63		052-56130-85	COIL A/W 8.5T/3.0MM HOR 0.56MM
L64		051-00632-00	LNK 15MM 1.4MM2 COP STP 1.5SLV
L65		051-00632-00	LNK 15MM 1.4MM2 COP STP 1.5SLV
L66		051-00632-00	LNK 15MM 1.4MM2 COP STP 1.5SLV
L175		051-00638-01	COAX T889 SEMI-RIG N-TYPE EXTN
L200		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
L201		065-10004-20	BEAD FE SMD CBD 4.6/3/3-4S2
LINK2		036-10000-00	RES M/F 0805 ZERO OHM
P1		240-02100-44	SKT COAX MINI JACK PCB MT ANG.
Q1		000-00293-30	S) XSTR 2SC2933 NPN 900MHZ 14W
Q2		000-00141-40	LS) XSTR SD1414 6LFL UHF 45W
Q3		000-00141-40	LS) XSTR SD1414 6LFL UHF 45W
Q4		000-00141-40	LS) XSTR SD1414 6LFL UHF 45W
Q5		000-00141-40	LS) XSTR SD1414 6LFL UHF 45W
Q6		000-00141-40	LS) XSTR SD1414 6LFL UHF 45W
Q101		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
Q103		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
Q105		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
Q107		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
Q109		000-10008-69	S) XSTR SMD BC869 PNP 1W SOT89
Q111		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
Q115		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
Q117		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
Q119		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
Q121		000-10017-00	LS) XSTR SMD BF170LT1 SOT23
Q123		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
Q125		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
Q127		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
Q129		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
Q131		000-10017-00	LS) XSTR SMD BF170LT1 SOT23
Q133		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
Q135		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
Q137		000-00030-95	S) XSTR 2N6107 PNP TO220 AF
Q138		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
R1		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R2		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R3		036-02100-02	RES 10E 1206 200V 250MW RC01
R4		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R5		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R6		036-02100-02	RES 10E 1206 200V 250MW RC01
R10		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R11		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R12		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R13		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R14		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R15		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R19		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R20		036-02100-03	L) RES 1218 PWR 10E 20% 1W
R21		036-02100-02	RES 10E 1206 200V 250MW RC01
R24		036-02100-02	RES 10E 1206 200V 250MW RC01
R29		036-02100-02	RES 10E 1206 200V 250MW RC01
R59A		036-01560-03	L) RES 1218 PWR 5E6 20% 1W
R60		036-03820-03	L) RES 1218 PWR 820E 20% 1W
R60A		036-03820-03	L) RES 1218 PWR 820E 20% 1W
R72		045-04470-00	RES NTC SMD 4K7 5% 20MW
R101		036-14100-10	RES M/F 0805 1K 1%
R102		036-16220-00	RES M/F 0805 220K 5%
R103		036-15330-00	RES M/F 0805 33K 5%
R104		036-16470-00	RES M/F 0805 470K 5%
R105		036-15150-00	RES M/F 0805 15K 5%
R106		036-15150-00	RES M/F 0805 15K 5%
R107		036-14390-10	RES M/F 0805 3K9 1%
R108		036-14330-10	RES M/F 0805 3K3 1%
R109		036-15100-10	RES M/F 0805 10K 1%
R111		036-14820-10	RES M/F 0805 8K2 1%
R112		036-14680-10	RES M/F 0805 6K8 1%
R113		036-14100-10	RES M/F 0805 1K 1%
R114		036-16100-00	RES M/F 0805 100K 5%
R115		036-16220-00	RES M/F 0805 220K 5%
R116		045-04470-00	RES NTC SMD 4K7 5% 20MW
R117		036-16220-00	RES M/F 0805 220K 5%
R118		036-15270-00	RES M/F 0805 27K 5%
R119		036-16470-00	RES M/F 0805 470K 5%
R120		036-15220-00	RES M/F 0805 22K 5%
R121		036-15150-00	RES M/F 0805 15K 5%
R122		036-14390-10	RES M/F 0805 3K9 1%
R123		001-10059-20	LS) DIODE SMD BA592 SW SOD323
R124		036-16100-00	RES M/F 0805 100K 5%
R125		036-15100-10	RES M/F 0805 10K 1%
R126		036-14100-10	RES M/F 0805 1K 1%
R127		036-15100-10	RES M/F 0805 10K 1%
R129		036-17100-10	RES M/F 0805 1M 1%
R130		036-14220-00	RES M/F 0805 2K2 5%
R131		036-16180-00	RES M/F 0805 180K 5%
R132		036-14100-10	RES M/F 0805 1K 1%
R133		036-15100-10	RES M/F 0805 10K 1%
R134		036-13470-00	RES M/F 0805 470E 5%
R135		036-13680-00	RES M/F 0805 680E 5%
R136		036-15100-10	RES M/F 0805 10K 1%
R137		036-14220-00	RES M/F 0805 2K2 5%
R138		036-15100-10	RES M/F 0805 10K 1%
R141		036-15100-10	RES M/F 0805 10K 1%
R142		036-15100-10	RES M/F 0805 10K 1%
R143		036-15100-10	RES M/F 0805 10K 1%
R144		036-15820-00	RES M/F 0805 82K 5%
R145		036-15470-10	RES M/F 0805 47K 1%
R146		036-14180-00	RES M/F 0805 1K8 5%
R148		036-15120-00	RES M/F 0805 12K 5%
R149		036-14680-10	RES M/F 0805 6K8 1%
R151		036-15100-10	RES M/F 0805 10K 1%
R152		036-15100-10	RES M/F 0805 10K 1%
R153		036-14470-10	RES M/F 0805 4K7 1%
R154		036-14470-10	RES M/F 0805 4K7 1%
R155		036-13220-00	RES M/F 0805 220E 5%
R156		036-13100-10	RES M/F 0805 100E 1%
R158		001-10059-20	LS) DIODE SMD BA592 SW SOD323
R159		036-15100-10	RES M/F 0805 10K 1%
R160		036-14470-10	RES M/F 0805 4K7 1%
R162		036-17100-10	RES M/F 0805 1M 1%
R164		036-14220-00	RES M/F 0805 2K2 5%
R165		036-14100-10	RES M/F 0805 1K 1%
R166		036-13680-00	RES M/F 0805 680E 5%
R168		036-15100-10	RES M/F 0805 10K 1%
R169		036-14100-10	RES M/F 0805 1K 1%
R170		036-14100-10	RES M/F 0805 1K 1%
R171		036-14100-10	RES M/F 0805 1K 1%
R172		036-15100-10	RES M/F 0805 10K 1%
R173		036-13470-00	RES M/F 0805 470E 5%
R174		036-13220-00	RES M/F 0805 220E 5%
R175		036-16220-00	RES M/F 0805 220K 5%
R176		036-15100-10	RES M/F 0805 10K 1%
R177		036-14470-10	RES M/F 0805 4K7 1%
R178		036-16100-00	RES M/F 0805 100K 5%
R179		036-15100-10	RES M/F 0805 10K 1%
R180		036-16150-00	RES M/F 0805 150K 5%
R181		036-14390-10	RES M/F 0805 3K9 1%
R182		036-16100-00	RES M/F 0805 100K 5%
R183		036-14470-10	RES M/F 0805 4K7 1%
R184		036-14100-10	RES M/F 0805 1K 1%
R185		036-14220-00	RES M/F 0805 2K2 5%
R186		036-13100-10	RES M/F 0805 100E 1%
R187		036-12220-00	RES M/F 0805 22E 5%
R188		036-16100-00	RES M/F 0805 100K 5%
R189		036-14150-00	RES M/F 0805 1K5 5%
R190		036-12220-00	RES M/F 0805 22E 5%
R191		036-14100-10	RES M/F 0805 1K 1%
R192		036-13220-00	RES M/F 0805 220E 5%
R193		036-12100-00	RES M/F 0805 10E 5%
R194		036-12220-00	RES M/F 0805 22E 5%
R271		036-13680-00	RES M/F 0805 680E 5%
R272		039-50500-00	RES TERM 50E 50W RFP50-50TCG
R274		039-00100-50	RES TERM 50E 100W RFP-100-50TW
R275		039-50500-00	RES TERM 50E 50W RFP50-50TCG
R276		039-02050-00	RES TERM 50E 20W RFP20-50TPC
R277		039-50500-00	RES TERM 50E 50W RFP50-50TCG
R278		039-02050-00	RES TERM 50E 20W RFP20-50TPC
R280		036-14100-10	RES M/F 0805 1K 1%
R285		036-13560-00	RES M/F 0805 560E 5%
RV101		042-04500-05	RES PRESET SMD 5K CER 4MM SQ
RV103		042-05500-05	RES PRESET SMD 50K CER 4MM SQ
RV105		042-04500-05	RES PRESET SMD 5K CER 4MM SQ
RV107		042-05500-05	RES PRESET SMD 50K CER 4MM SQ
*RV109		044-04200-06	RES PRE MULT 2K 15T PNL MTG
RV113		042-06500-05	RES PRESET SMD 500K CER 4MM SQ
RV115		042-05200-05	RES PRESET SMD 20K CER 4MM SQ
SHIELD1		319-01219-00	SHIELD WALL T889 LOW PASS FILT
SK101		240-10000-05	CONN SMD SKT 8W 2R M-MATCH
SK103		240-10000-05	CONN SMD SKT 8W 2R M-MATCH
SK105		240-10000-05	CONN SMD SKT 8W 2R M-MATCH
SK107		240-10000-05	CONN SMD SKT 8W 2R M-MATCH

T889 Mechanical & Miscellaneous Parts (220-01326-04)

IPN	Legend	Description
025-08100-03		CAP 10M 35V 20% TANT 5MM L/S
044-04200-07		RES POT COVER H-83P
056-00021-02		IND FXD 100UH AX
070-01001-00		D-RANGE 15 WAY COMPL T800
201-00030-02		WIRE T/C WIRE 7/0.2 PVC RED
201-00050-25		AUTO 154 RED 41/0.3 PVC
201-00050-26		AUTO 154 BLACK 41/0.3 PVC
219-02591-01		LOOM RIBBON 8 WAY FOR T839PA
219-02593-01		LOOM RIBBON ASSY FOR T889PA
219-02600-00		RG316 CABLE ASSEMBLY T889 PA
219-02639-00		CABLE ASSEMBLY RG223/UN TO BNC
220-01326-04		PCB T889 90W PA SERIES II
240-02010-54		SKT 15W DRANGE PNL MTG 125 C
240-02100-51		SKT N-TYPE FLANGE FEM SEMI-RIG
240-06010-14		CLAMP LATCHING 15 W D RANGE
240-06010-15		BLOCK LATCHING 15W D RANGE
258-00010-06		FAN 12V 119x119x25 (CHAMPION)
302-05204-00		BRKT A3M2314 F/THRU MTG T859
303-11182-02		HEATSINK T889 MECH, DRILLED
303-23117-00		COVER SIDE COMPL A2M2223
306-01010-00		FERRULE A4M948 HANDLE
308-01007-00		HANDLE A4M949 FXD EQUIP
316-06515-00		PNL FRT T889 SCRND COMPLETE
318-01011-00		RAIL A2M1872 BOTTOM T377 PA
318-01012-00		RAIL A3M1873 TOP T377 PA
319-01187-00		SHIELD LID T889 HARMONIC FLTR
319-01202-00		SHIELD T869PA CONTROL CIRCUIT
319-01220-00		SHIELD LID T889 LOW PASS FILTE
319-30061-00		SPACER PLATE T889 WIRELINE
319-30062-00		SPACER T889 PRE DRIVER XSTR
319-40009-00		STRAP RF PWR XSTR EARTHING 889
345-00040-09		SCRW M3*6MM CSK POZI TRUNC
345-00040-16		SCRW M3X20MM P/POZ ST BZ
349-00020-07		SCRW 4-40 X 5/16 P/POZ T/T BLK
349-00020-09		SCRW T/T 4-40X3/8 IN P/POZ BLK
349-00020-36		SCREW TT M3X8m PANTORX BLK
349-00020-43		SCRW T/T M4X12MM P/POZ BZ
349-00020-49		SCRW T/T M4X35MM P/POZ BZ
349-00020-50		SCRW T/T 4-40 * 5/8 P/POZ BLK
352-00010-29		NUT M4 NYLOC HEX
353-00010-10		WSHR M3 FLAT 7MM*0.6MM ST BZ
356-00010-01		TAG SOLDER 3MM SHORT M6132/3.2
356-00010-03		TAG SOLDER 3MM LONG M614/3.2
356-00010-26		PIN TRACK HARWIN FOR 1.6MM PCB
356-00010-26		PIN TRACK HARWIN FOR 1.6MM PCB
357-00010-45		CLAMP CABLE 4.8MM P CLIP
360-00010-41		BUSH SHORTY BLK
362-00010-07		GASKET SIL INSULATING TO-220
362-00010-13		BUSH INSULATING 1.1MM TOP HAT
362-00010-33		GROMMET LED MTG 3MM
365-00100-20		LABEL WHITE S/A 28X11MM
369-00010-14		TIE CABLE NYLON 100*2.6MM
399-00010-56		BAG PLASTIC 200*250MM
400-00020-07		SLEEVING 2MM SIL RUBBER
400-00020-30		HEATSHRINK 3MM

replace A4 pages 7.2.19/7.2.20 with A3 pages 7.2.19/7.2.20

replace A4 pages 7.2.19/7.2.20 with A3 pages 7.2.19/7.2.20

T889 Grid Reference Index (IPN 220-01326-04)

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.

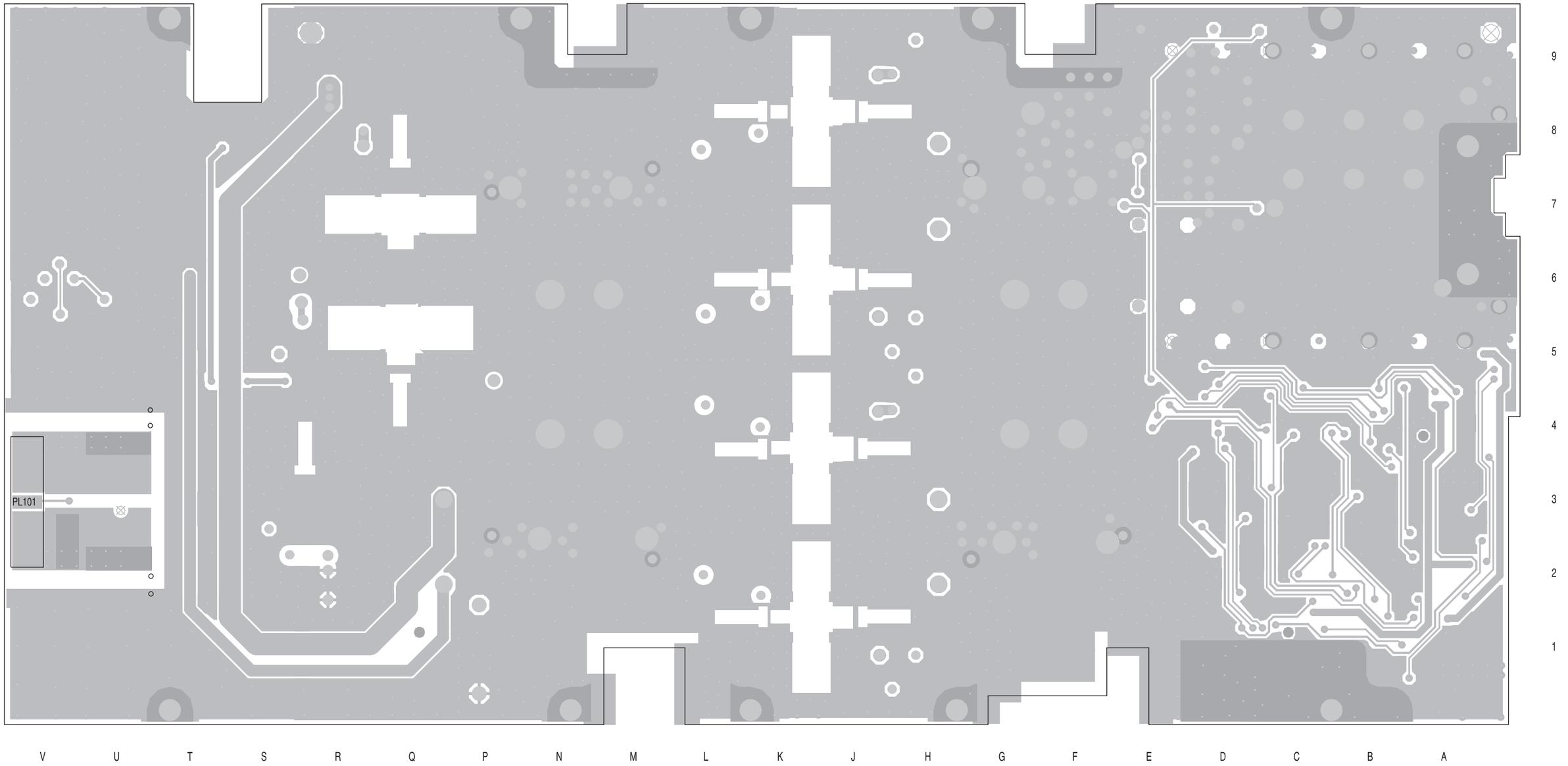
Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
C1	1:R2	2-B4	C111	1:A3	1-D7	C225	1:N7	2-I4	L17	1:L2	2-K7
*C2	1:Q5	2-D3	C113	1:A2	1-F8	C245	1:F2	2-P7	L18	1:K2	2-K7
*C3	1:Q5	2-D3	C115	1:A2	1-F8	C250	1:G2	2-P5	L19	1:J1	2-N7
C4	1:A1	1-N7	C117	1:A2	1-F9	C252	1:G7	2-P3	L20	1:H1	2-N7
C6	1:S6	2-D4	C119	1:A2	1-G8	C258	1:F7	2-P1	L21	1:P8	2-I4
C7	1:S4	2-C4	C121	1:B5	1-B6				L23	1:G2	2-O7
*C9	1:Q6	2-E3	C123	1:B5	1-B6	D101	1:B4	1-H5	L24	1:M2	2-J7
*C10	1:Q6	2-F4	C125	1:A3	1-D6	D101	1:B4	1-H5	L26	1:L3	2-J5
*C11	1:Q6	2-F3	C127	1:B3	1-D6	D103	1:V8	1-M8	L27	1:L4	2-K5
*C12	1:Q6	2-G3	C129	1:A3	1-Q4	D105	1:A5	1-K2	L28	1:K5	2-K5
*C13	1:Q7	2-H3	C130	1:B3	1-J5	D105	1:A5	1-L2	L29	1:J4	2-N5
C14	1:Q7	2-H3	C131	1:A1	1-K6	D107	1:V9	1-L4	L30	1:H4	2-N5
C16	1:R8	2-G4	C132	1:A2	1-L7	D109	1:V8	1-N5	L32	1:H3	2-O5
C17	1:Q8	2-G4	C133	1:B1	1-M7	D113	1:P1	1-Q1	L33	1:L7	2-J3
C18	1:P8	2-F4	C139	1:A1	1-N6				L34	1:L6	2-K3
*C19	1:Q6	2-E3	C143	1:B3	1-D5	DCC1	1:E7	2-S4	L35	1:K5	2-K3
C20	1:K1	2-K7	C145	1:B3	1-E5	DCC4	1:D7	2-S3	L36	1:J6	2-N4
*C21	1:K2	2-L7	C147	1:E5	1-F4	DCC100	1:D6	2-T4	L37	1:H5	2-N4
C22	1:J2	2-M7	C149	1:E4	1-F5	DCC101	1:C6	2-U4	L39	1:H7	2-O3
C23	1:J1	2-M7	C151	1:B2	1-B4	DCC102	1:C8	2-U4	L40	1:G5	2-Q4
C24	1:J1	2-O7	C153	1:A1	1-B3	DCC103	1:B8	2-V4	L41	1:F5	2-Q5
C26	1:K4	2-K5	C155	1:D4	1-G3	DCC104	1:B6	2-V4	L42	1:F5	2-R5
*C27	1:K4	2-L5	C159	1:A5	1-K2	DCIC1	1:D7	2-S4	L43	1:M8	2-J1
C28	1:J4	2-M5	C161	1:A2	1-M4	DCIC2	1:E8	2-S4	L44	1:L8	2-K1
C29	1:J1	2-N6	C162	1:B3	1-N4	DCR1	1:D8	2-S4	L45	1:L7	2-K1
C30	1:J4	2-M5	C164	1:B2	1-P4	DCR2	1:E7	2-S4	L46	1:J9	2-N2
C31	1:J5	2-O5	C167	1:U4	1-P2				L47	1:H9	2-N2
C33	1:K6	2-K3	C169	1:U3	1-P2	IC101	1:D5	1-G0	L49	1:G8	2-O1
*C34	1:K6	2-L3	C171	1:U4	1-Q2	IC101	1:D5	1-B6	L50	1:E7	2-T5
C35	1:J6	2-M3	C173	1:D4	1-B0	IC101	1:D5	1-M0	L51	1:N1	2-U9
C36	1:J6	2-M3	C174	1:C5	1-C0	IC101	1:D5	1-B7	L52	1:D9	2-T3
C37	1:J5	2-N4	C176	1:E3	1-E0	IC101	1:D5	1-C1	L55	1:D6	2-T4
C39	1:H1	2-O6	C177	1:C1	1-F0	IC103	1:B1	1-C3	L57	1:C7	2-U4
C40	1:K8	2-K1	C178	1:E5	1-G0	IC103	1:B1	1-K8	L58	1:F2	2-R5
*C41	1:K8	2-L1	C179	1:C3	1-G2	IC103	1:B1	1-F0	L59	1:B8	2-U4
C42	1:J8	2-M1	C180	1:T8	2-D5	IC103	1:B1	1-L4	L61	1:B7	2-V4
C43	1:J9	2-M1	C181	1:T7	2-D5	IC103	1:B1	1-C2	L63	1:S2	2-A4
C44	1:J9	2-N2	C182	1:T8	2-C6	IC105	1:D3	1-G2	L64	1:H7	2-P3
C46	1:J9	2-O2	C183	1:S8	2-C5	IC105	1:D3	1-N0	L65	1:H2	2-O7
C47	1:H9	2-O2	C185	1:T8	2-C6	IC105	1:D3	1-M0	L66	1:Q2	2-F5
C48	1:E7	2-U5	C187	1:D2	1-J1	IC107	1:D2	1-K1	L175		2-W4
C52	1:C9	2-T3	C189	1:D3	1-N1	IC109	1:C2	1-N1	L200	1:T6	2-D7
C58	1:J6	2-O4	C190	1:D3	1-N1				L201	1:T7	2-D7
C59	1:H7	2-O4	C192	1:C2	1-N0	L1	1:U3	1-P2			
C60	1:H3	2-O4	C193	1:C4	1-P0	L2	1:Q5	2-C3	LINK2	1:V7	1-D1
C66	1:S3	2-B4	C195	1:C3	1-Q0	L3	1:P4	2-C3			
C67	1:H2	2-O6	C196	1:C2	1-J1	L4	1:R6	2-D4	P1	1:R2	2-A4
C68	1:H6	2-P4	C197	1:C2	1-L1	L5	1:S5	2-D4	P4	1:A7	2-W4
C72	1:H8	2-P2	C198	1:D2	1-L1	L6	1:S5	2-C5			
C73	1:Q8	2-F4	C199	1:D3	1-M1	L7	1:R6	2-F3	P101	1:A5	1-R9
C74	1:S4	2-B4	C200	1:T7	2-D6	L8	1:S7	2-F3	P112	1:U4	1-R0
C75	1:R4	2-C4	C201	1:T6	2-D6	L9	1:Q8	2-H4	P113	1:U2	1-R1
C97	1:P1	2-U9	C203	1:T7	2-C6	L10	1:R8	2-H4			
C98	1:P1	2-V9	C204	1:A1	1-N7	L11	1:Q6	2-E4	PL101	2:V3	2-D0
C101	1:D4	1-B7	C205	1:A1	1-P7	L12	1:U3	1-Q2			
C103	1:D5	1-B8	C206	1:T7	2-E5	L13	1:N5	2-I4	Q1	1:Q5	2-D4
C105	1:A3	1-D8	C207	1:S7	2-D5	L14	1:N5	2-I5	Q2	1:Q7	2-G4
C107	1:A3	1-D9	C210	1:D1	1-G1	L15	1:M5	2-J5	Q3	1:K1	2-M7
C109	1:A3	1-D8	C211	1:C1	1-H1	L16	1:R4	2-C4	Q4	1:K4	2-M5

Device	PCB	Circuit
Q5	1:K6	2-M3
Q6	1:K8	2-M1
Q101	1:A3	1-C8
Q103	1:A3	1-D8
Q105	1:B2	1-D6
Q107	1:A2	1-F8
Q109	1:A2	1-G8
Q111	1:A5	1-K7
Q115	1:A2	1-M7
Q117	1:B1	1-M7
Q119	1:A3	1-M6
Q121	1:A1	1-P8
Q123	1:B3	1-E5
Q125	1:B3	1-E5
Q127	1:E4	1-F4
Q129	1:B2	1-N4
Q131	1:B3	1-P4
Q133	1:C5	1-E0
Q135	1:S8	2-C5
Q137	1:T8	2-B5
Q138	1:A1	1-K6
R1	1:P5	2-C3
R2	1:S5	2-D4
R3	1:S5	2-C4
R4	1:R6	2-F3
R5	1:R8	2-G4
R6	1:Q8	2-G4
R10	1:L2	2-J7
R11	1:H1	2-N7
R12	1:L5	2-J5
R13	1:H4	2-N5
R14	1:L5	2-J3
R15	1:H5	2-N4
R19	1:L7	2-J1
R20	1:H9	2-N2
R21	1:H9	2-O2
R24	1:H6	2-O4
R29	1:H1	2-N6
R59A	1:R3	2-B4
R60	1:R3	2-B3
R60A	1:R3	2-B3
R72	1:P1	2-T9
R101	1:C4	1-A7
R102	1:E4	1-A9
R103	1:E5	1-A7
R104	1:D4	1-B9
R105	1:A5	1-C8
R106	1:A3	1-C8
R107	1:A5	1-D7
R108	1:A3	1-D9
R109	1:A3	1-D8
R111	1:A3	1-E8
R112	1:A2	1-E8
R113	1:A2	1-F9
R114	1:B4	1-A6
R115	1:B5	1-A6
R116	1:B4	1-A6
R117	1:B5	1-A6
R118	1:B5	1-B6
R119	1:B4	1-C6
R120	1:A5	1-K7
R121	1:B4	1-C6
R122	1:B5	1-D6
R123	1:B2	1-H7
R124	1:B1	1-K8
R125	1:B2	1-K8
R126	1:B4	1-J5
R127	1:A4	1-J7
R129	1:B1	1-L8
R130	1:B1	1-L8
R131	1:A2	1-K7
R132	1:B1	1-L8
R133	1:A2	1-K7
R134	1:A1	1-K6
R135	1:V9	1-M9

Device	PCB	Circuit
R136	1:A2	1-L7
R137	1:A2	1-L6
R138	1:A3	1-M6
R141	1:B3	1-D5
R142	1:B3	1-E5
R143	1:A3	1-E4
R144	1:B4	1-F4
R145	1:E4	1-F5
R146	1:E4	1-F5
R148	1:B2	1-A4
R149	1:B4	1-A3
R151	1:B2	1-B4
R152	1:A1	1-B3
R153	1:B2	1-E4
R154	1:A2	1-E3
R155	1:D4	1-G2
R156	1:D4	1-F3
R158	1:A1	1-K3
R159	1:A1	1-L4
R160	1:C3	1-K4
R162	1:A1	1-L3
R164	1:B2	1-M4
R165	1:B2	1-M3
R166	1:V8	1-N5
R168	1:C4	1-A1
R169	1:C5	1-A0
R170	1:C4	1-B1
R171	1:C5	1-B0
R172	1:B4	1-B1
R173	1:V7	1-C1
R174	1:V7	1-C1
R175	1:C4	1-C0
R176	1:D4	1-D0
R177	1:D5	1-D0
R178	1:D3	1-E1
R179	1:D3	1-E0
R180	1:E3	1-E0
R181	1:D4	1-E2
R182	1:E3	1-E0
R183	1:E3	1-F1
R184	1:S7	2-D5
R185	1:D4	1-H2
R186	1:T8	2-C6
R187	1:C1	1-F0
R188	1:D2	1-L1
R189	1:C3	1-L0
R190	1:E4	1-G0
R191	1:C2	1-P0
R192	1:B2	1-P0
R193	1:B3	1-Q1
R194	1:D3	1-M1
R271	1:V9	1-L5
R272	1:F9	2-Q4
R274	1:G1	2-Q5
R275	1:F1	2-R5
R276	1:N9	2-I4
R277	1:N1	2-I5
R278	1:L1	2-J5
R280	1:A4	1-L3
R285	1:D1	1-H1
RV101	1:C4	1-J8
RV103	1:C4	1-H5
RV105	1:C3	1-K4
RV107	1:C2	1-K3
*RV109	1:V6	1-C2
RV111	1:V6	1-D2
RV113	1:C3	1-E1
RV115	1:C2	1-L1
S3	1:E8	2-T4
S4	1:D9	2-T3
SHIELD1	1:C7	2-C0
SK101	1:U3	2-K0

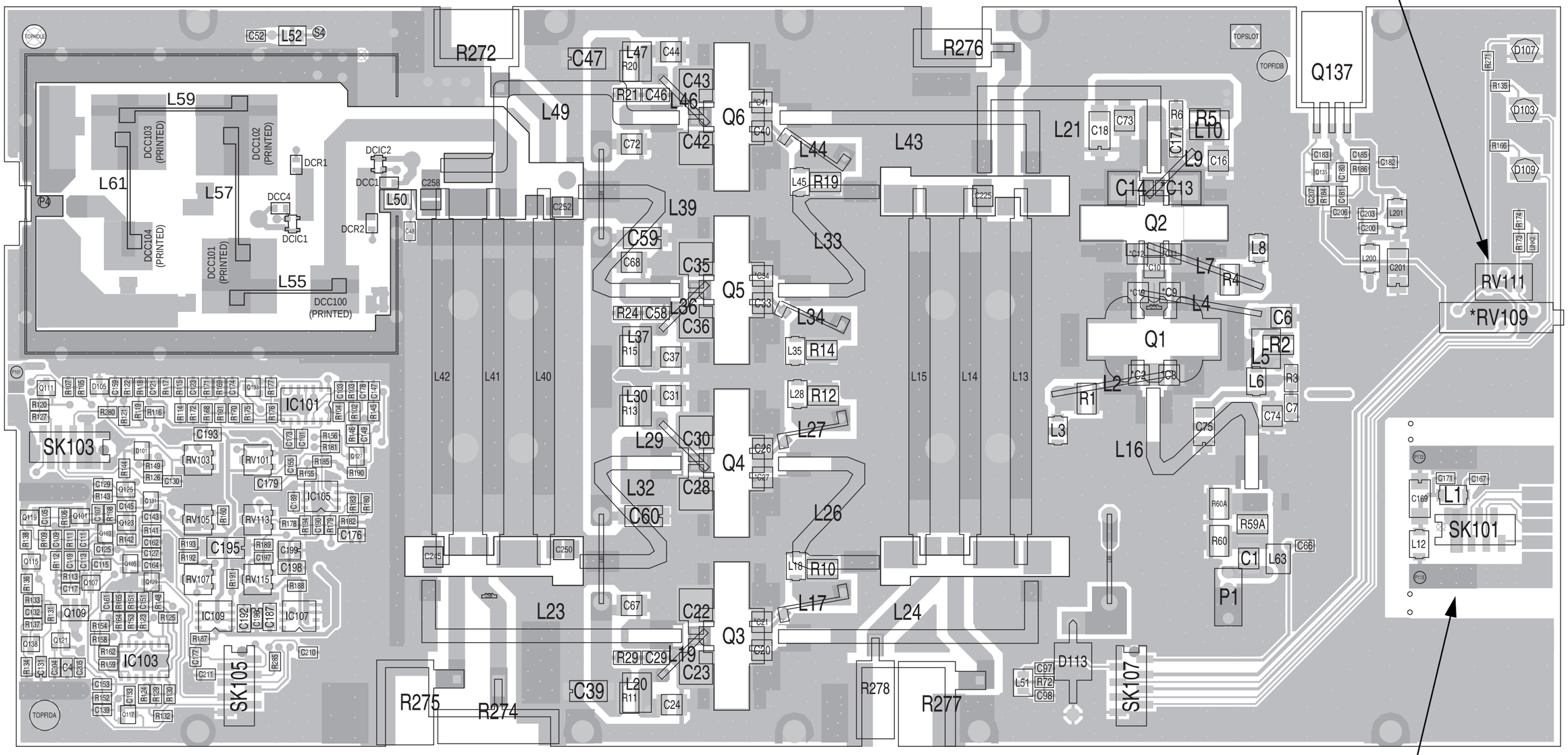
Device	PCB	Circuit
SK103	1:A4	2-F0
SK105	1:C1	2-I0
SK107	1:Q1	2-G0
TB1		2-I4
TB2		2-I4
TB3		2-P7
TB4		2-Q7
TB5		2-P5
TB6		2-P5
TB7		2-P3
TB8		2-P3
TB9		2-P1
TB10		2-Q1

Device	PCB	Circuit



T889 PCB Layout - Bottom Side
220-01326-04

RV111 may be fitted instead of *RV109 to convert the output power adjustment to internal access only.



A B C D E F G H J K L M N P Q R S T U V

The circuitry for the break-off D-range PCB is shown on the control section circuit diagram.

T889 PCB Layout - Top Side
220-01326-04

17/12/99