

6.2 T836 Transmitter PCB

ID: CASTEL0004

2.983 (d)(6) BLOCK DIAGRAM

This section contains the following information.

IPN	Section	Page
220-011395-02	Parts List	6.2.3
	Mechanical & Miscellaneous Parts	6.2.8
	Mechanical Assembly	6.2.9
	Grid Reference Index	6.2.11
	PCB Layout - Top Side	6.2.15
	PCB Layout - Bottom Side	6.2.16
	Test Points & Options Connections - Top & Bottom Side	6.2.17
	Transmitter Overview Diagram	6.2.18
	Audio Processor Circuit Diagram	6.2.19
	Exciter Circuit Diagram	6.2.20
	PA Circuit Diagram	6.2.21
	VCO Section Circuit Diagram	6.2.22
	Regulators Circuit Diagram	6.2.23
	Synthesiser Circuit Diagram	6.2.24
	Microcontroller Circuit Diagram	6.2.25
	Harmonic Filter Circuit Diagram	6.2.26

T836 Parts List (IPN 220-01395-02)**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. Static sensitive devices are indicated by an (S) at the start of the description column.

The mechanical and miscellaneous 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

C314	Deleted to improve low frequency stability (710137).
C316, C347	Changed from 22n (015-25220-08) to 47n (015-25470-08) to improve cyclic keying & standby current (710059).
#C448	136-156MHz (-10, -13 & -15): changed from 39p (015-02390-02) to 33p (015-02330-02) to improve low band performance.
C910A, C950A	2p2 capacitors (015-01220-06) added on top of C910 & C950 to improve the low pass filter at 174MHz (710155).
IC710	Changed from 74HCV04 (IPN 002-74910-04) to 74HC04 (IPN 002-74900-04) to increase the gain of the TCXO buffer (710312).
R313	Changed from 27k (036-15270-00) to 18k (036-15180-00) to improve cyclic keying & standby current (710059).
R320, R321	Changed from 47k (036-15470-00) to 33k (036-15330-00) to improve cyclic keying & standby current (710059). Changed from 33k (036-15330-00) to 56k (036-15560-00) for ACP IETS 300-113 compliance (710158).
R355	Changed from 82k (036-15820-00) to 47k (036-15470-00) to improve cyclic keying & standby current (710059).
R356	Changed from 47k (036-15470-00) to 220k (036-16220-00) to improve cyclic keying & standby current (710059).
R357	Changed from 47k (036-15470-00) to 22k (036-15220-00) to improve cyclic keying & standby current (710059). Changed from 22k (036-15220-00) to 47k (036-15470-00) for ACP IETS 300-113 compliance (710158).

Ref	Var	IPN	Description	Ref	Var	IPN	Description
C740B		015-25100-08	CAP CER 0805 10N 10% X7R 50V	L355		056-00021-01	IND FXD 1.5UH AX
C741A		014-07470-00	CAP TANT CHIP 4U7 3.5 X 2.8MM	L360		052-08140-35	COIL A/W 3.5T/4.0MM HOR 0.8MM
C741B		015-25100-08	CAP CER 0805 10N 10% X7R 50V	L365		052-08130-15	COIL A/W 1.5T/3.0MM HOR 0.8MM
C742A		015-06100-08	CAP CER 1206 100N 10% X7R 50V	L370		065-00010-08	BEAD FERR 4S3 3*0.7*10MM RED
C742B		015-25100-08	CAP CER 0805 10N 10% X7R 50V	L375		065-00010-04	BEAD FERR F8 4X2X5MM
C743		015-22470-01	CAP CER 0805 47P 5% NPO 50V	L380		056-00021-01	IND FXD 1.5UH AX
C745		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L385		052-08145-35	COIL A/W 3.5/4.5MM HOR 0.8MM
C750		025-08100-03	CAP 10M 35V 20% TANT 5MM L/S	L400		052-08135-15	COIL A/W 1.5T/3.5MM HOR 0.8MM
C757		015-25100-08	CAP CER 0805 10N 10% X7R 50V	L410		065-00010-04	BEAD FERR F8 4X2X5MM
C759		015-25100-08	CAP CER 0805 10N 10% X7R 50V	L415		065-00010-04	BEAD FERR F8 4X2X5MM
C761		015-25100-08	CAP CER 0805 10N 10% X7R 50V	L420		065-00010-08	BEAD FERR 4S3 3*0.7*10MM RED
C762		014-08220-01	(L)CAP TANT 22UF10V276MSER	L425		052-08130-15	COIL A/W 1.5T/3.0MM HOR 0.8MM
C764		015-25100-08	CAP CER 0805 10N 10% X7R 50V	L440		065-00010-08	BEAD FERR 4S3 3*0.7*10MM RED
C765		014-07470-00	CAP TANT CHIP 4U7 3.5 X 2.8MM	L445		065-00010-04	BEAD FERR F8 4X2X5MM
C767		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L450		065-00010-01	BEAD FERR 3B 6 HOLE
C769		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L455		052-08140-15	COIL A/W 1.5T/4.0MM HOR 0.8MM
C770		014-08220-01	(L)CAP TANT 22UF10V276MSER	L465		052-08130-15	COIL A/W 1.5T/3.0MM HOR 0.8MM
C772		014-08220-01	(L)CAP TANT 22UF10V276MSER	L470		052-08140-25	COIL A/W 2.5T/4.0MM HOR 0.8MM
C774		022-06330-05	CAP METAL PPS 330N 10% 63V 5MM	L475		056-00021-01	IND FXD 1.5UH AX
C776		015-25150-08	CAP CER 0805 15N 10% X7R 50V	L480		052-08140-25	COIL A/W 2.5T/4.0MM HOR 0.8MM
C782		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L485		056-00021-01	IND FXD 1.5UH AX
C784		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L490		056-00021-01	IND FXD 1.5UH AX
C786		015-06100-08	CAP CER 1206 100N 10% X7R 50V	L495		056-00021-01	IND FXD 1.5UH AX
C788		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L750		056-10068-00	IND FXD SMD BC6NH 3.2*2.5*1.6
C790		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L910		052-08135-45	COIL A/W 4.5T/3.5MM HOR 0.8MM
C792		015-24100-08	CAP CER 0805 1N 10% X7R 50V	L920		052-08155-25	COIL A/W 2.5T/5.5MM HOR 0.8MM
C810		015-25470-08	CAP CER 0805 47N 10% X7R 50V	L930		052-08155-25	COIL A/W 2.5T/5.5MM HOR 0.8MM
C812		015-23100-01	CAP CER 0805 100P 5% NPO 50V	L940		052-08135-45	COIL A/W 4.5T/3.5MM HOR 0.8MM
C813		015-24100-08	CAP CER 0805 1N 10% X7R 50V				
C822		014-07470-00	CAP TANT CHIP 4U7 3.5 X 2.8MM	LED1		008-00013-32	S) LED 3 RED LO CURRENT NO MTG
C823		015-25220-08	CAP CER 0805 22N 10% X7R 50V	LED2		008-00013-35	S) LED 3 GRN LO CURRENT NO MTG
C824		015-25470-08	CAP CER 0805 47N 10% X7R 50V				
C826		015-23220-01	CAP CER 0805 220P 5% NPO 50V	PL100		240-00010-55	PLUG 15 W D RANGE W/W PNL MT
C827		015-22330-01	CAP CER 0805 33P 5% NPO 50V	PL205		240-00020-67	HEADER 8W 2X3 PCB MTG STD
C828		015-25100-08	CAP CER 0805 10N 10% X7R 50V	PL210		240-00020-67	HEADER 6W 2X3 PCB MTG STD
C830		015-25470-08	CAP CER 0805 47N 10% X7R 50V	PL215		240-00020-44	HEADER 10W X2R PCB MTG 5*2
C838		020-09100-04	CAP ELE RA 100M 10V 6.3X9MM	PL220		240-00020-67	HEADER 6W 2X3 PCB MTG STD
C841		020-09100-04	CAP ELE RA 100M 10V 6.3X9MM				
C844		015-25100-08	CAP CER 0805 10N 10% X7R 50V	Q210		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
C910		015-02150-02	CAP CER HIQ1210 15P 5% NPO200V	Q220		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
C910A		015-01220-06	CAP CER 1210 2P2 NPO500VGRM42	Q230		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
C920		015-02330-02	CAP CER HIQ1210 33P 5% NPO200V	Q240		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
C930		015-02270-02	CAP CER HIQ1210 27P 5% NPO200V	Q250		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
C940		015-02330-02	CAP CER HIQ1210 33P 5% NPO200V	Q260		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
C950		015-02150-02	CAP CER HIQ1210 15P 5% NPO200V	Q270		000-00011-91	S) XSTR BD139 NPN AF PWR TO126
C950A		015-01220-06	CAP CER 1210 2P2 NPO500VGRM42	Q305		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
CV451		028-02200-01	AP TRM 420P N750 TOP ADJ	Q310		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
D111		001-00011-60	S) DIODE SR2607 - USE MR750	Q315		000-00012-15	S) XSTR BD234 PNP AF PWR TO126
D220		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23	Q320		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D230		001-00010-40	S) DIODE ZENER 33V 1.3W	Q325		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D240		001-10000-56	S) DIODE SMD BAW56 D-SW SOT23	Q330		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
D250		001-10000-56	S) DIODE SMD BAW56 D-SW SOT23	Q335		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D260		001-10000-56	S) DIODE SMD BAW56 D-SW SOT23	Q340		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
D270		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23	Q345		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
D330		001-00015-69	S) DIODE ZEN 11V 0.5W LO CUR	Q350		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
D340		001-10000-18	S) DIODE SMD BAT18 S-SW SOT23	Q355		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
D350		001-10000-18	S) DIODE SMD BAT18 S-SW SOT23	Q360		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
D360		001-10000-18	S) DIODE SMD BAT18 S-SW SOT23	Q365		000-00031-96	S) XSTR 3866 NPN TO92 SWITCH
D410		001-00013-45	S) DIODE SCHTTKY 1SS97/2	Q370		000-00022-30	S) XSTR 2N4427 NPN TO99 VHF DR
D420		001-00013-45	S) DIODE SCHTTKY 1SS97/2	Q415		000-00021-65	S) XSTR SD1012-9 NPN S-MTG VHF
D610		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23	Q425		000-00023-23	S) XSTR SRFH1001 NPN S-MTG 30W
D620		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23	Q510		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D630		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23	Q520		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D635		001-10065-00	DIODE BAT65 SCHOTTKEY SOD123	Q530		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D640		001-10000-70	S) DIODE SMD BAV70 D-SW SOT23	Q540		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D710		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23	Q550		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
D720		001-10000-99	S) DIODE SMD BAV99 D-SW SOT23	Q610		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
D730		001-10065-00	DIODE BAT65 SCHOTTKEY SOD123	Q620		000-00012-15	S) XSTR BD234 PNP AF PWR TO126
D740		001-10065-00	DIODE BAT65 SCHOTTKEY SOD123	Q630		000-50011-30	S) XSTR AL BC557B PNP TO92 AF
D810		001-10065-00	DIODE BAT65 SCHOTTKEY SOD123	Q660		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
IC210		002-10003-24	S) IC SMD 324 4X O-AMP SO14	Q670		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
IC220		002-10126-70	S) IC SMD DS1267S10K 2XDIG POT	Q710		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
IC230		002-10003-24	S) IC SMD 324 4X O-AMP SO14	Q720		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
IC240		002-10040-53	S)MC14053B SMD BREAK B4 MAKE	Q730		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
IC250		002-00020-50	S) IC 4N25A OPTOCOUPLER	Q740		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
IC260		002-10003-24	S) IC SMD 324 4X O-AMP SO14	Q750		000-10008-07	S) XSTR SMD BC807 PNP SOT23 AF
IC330		002-10003-58	S) IC SMD LM358 DUAL O-AMP	Q760		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
IC610		002-00014-58	S) IC 78L05 5V 100MA REG TO92	Q770		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
IC630		002-00014-62	S) IC 317L 100MA REG 3TER TO92	Q775		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
IC640		002-10003-58	S) IC SMD LM358 DUAL O-AMP	Q780		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
IC650		002-10012-32	SMD DS1232LPS-2 LP RESET&W-DOG	Q785		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
=IC700		539-00010-41	TCXO 12.8MHZ +2.5PPM -30 +70C	Q790		000-10003-12	S) XSTR SMD BFR31 N JFET SOT23
IC710		002-74910-04	S) IC SMD 74HC04 6X INV	Q795		000-10057-10	S) XSTR SMD BR571 NPN SOT23
IC720		002-74910-04	S) IC SMD 74HC04 6X INV	Q810		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
IC730		002-10045-20	S) IC SMD 74HC4520T 2XCTR 4BIT	Q820		000-10008-17	S) XSTR SMD BC817-25 NPN SOT23
IC740		002-14519-10	S) IC MC145191F SMD SYNTH	Q830		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
IC750		002-10330-78	S) IC MC33078D 2X AMP LO NOISE	Q840		000-10008-57	S) XSTR SMD BCW70 PNP SOT23 SS
IC810		002-08951-20	S) IC AT89C51 PLCC44 MIC 12MHZ	Q850		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
IC820		002-12416-00	S)IC SMD AT24C16N-10SC EEPROM	Q860		000-10008-48	S) XSTR SMD BCW60 NPN SOT23 SS
IC830		002-10003-24	S) IC SMD 324 4X O-AMP SO14				
L335		056-10330-02	(L) IND SMD 330NH	R160		036-12100-00	RES M/F 0805 10E 5%
L340		056-10330-02	(L) IND SMD 330NH	R201		036-13560-00	RES M/F 0805 560E 5%
L345		052-08135-25	COIL A/W 2.5T/3.5MM HOR 0.8MM	R202		036-14100-00	RES M/F 0805 1K 5%
L350		052-08125-15	COIL A/W 1.5T/2.5MM HOR 0.8MM	R204		036-14220-00	RES M/F 0805 2K2 5%
				R205		036-13220-00	RES M/F 0805 220E 5%
				R206		036-14100-00	RES M/F 0805 1K 5%
				R207		036-14390-00	RES M/F 0805 3K9 5%
				R208		036-13560-00	RES M/F 0805 560E 5%

Ref	Var	IPN	Description	Ref	Var	IPN	Description
R657		036-15100-00	RES M/F 0805 10K 5%	R846		036-13470-00	RES M/F 0805 470E 5%
R661		036-15100-00	RES M/F 0805 10K 5%	R847		036-13470-00	RES M/F 0805 470E 5%
R665		036-16100-00	RES M/F 0805 100K 5%	R848		036-14470-00	RES M/F 0805 4K7 5%
R669		036-15470-00	RES M/F 0805 47K 5%	R849		036-13470-00	RES M/F 0805 470E 5%
R673		036-16100-00	RES M/F 0805 100K 5%	R850		036-13470-00	RES M/F 0805 470E 5%
R677		036-15470-00	RES M/F 0805 47K 5%	R853		036-14470-00	RES M/F 0805 4K7 5%
R681		036-13100-00	RES M/F 0805 100E 5%	R854		036-14470-00	RES M/F 0805 4K7 5%
R685		036-15150-00	RES M/F 0805 15K 5%	R855		036-14470-00	RES M/F 0805 4K7 5%
R689		036-12100-00	RES M/F 0805 10E 5%	R859		036-16150-00	RES M/F 0805 150K 5%
R693		036-16100-00	RES M/F 0805 100K 5%	R861		036-16150-00	RES M/F 0805 150K 5%
R696		036-15560-00	RES M/F 0805 56K 5%	R863		036-16150-00	RES M/F 0805 150K 5%
R701		036-12220-00	RES M/F 0805 22E 5%	R865		036-16100-00	RES M/F 0805 100K 5%
R702		036-17100-00	RES M/F 0805 1M 5%	R867		036-16100-00	RES M/F 0805 100K 5%
R703		036-17100-00	RES M/F 0805 1M 5%	R871		036-15470-00	RES M/F 0805 47K 5%
R706		036-15150-00	RES M/F 0805 15K 5%	R872		036-14470-00	RES M/F 0805 4K7 5%
R708		036-16100-00	RES M/F 0805 100K 5%	R873		036-15330-00	RES M/F 0805 33K 5%
R710		036-13100-00	RES M/F 0805 100E 5%	R874		036-14470-00	RES M/F 0805 4K7 5%
R711		036-13100-00	RES M/F 0805 100E 5%	R875		036-15470-00	RES M/F 0805 47K 5%
R712		036-12100-00	RES M/F 0805 10E 5%	R876		036-14470-00	RES M/F 0805 4K7 5%
R713		036-12220-00	RES M/F 0805 22E 5%	R877		036-14470-00	RES M/F 0805 4K7 5%
%R715		036-14100-00	RES M/F 0805 1K 5%	R879		036-15100-00	RES M/F 0805 10K 5%
R717		036-14270-00	RES M/F 0805 2K7 5%				
R718		036-15560-00	RES M/F 0805 56K 5%	RV210		040-05100-23	POT 10K LOG PCB 15MM SLOT SFT
R719		036-15560-00	RES M/F 0805 56K 5%	RV220		042-05470-06	RES PRE 47K CAR 6MM FLAT T/ADJ
R720		036-15390-00	RES M/F 0805 39K 5%	RV310		042-04220-06	RES PRE 2K2 CAR 6MM FLAT
R721		036-15100-00	RES M/F 0805 10K 5%	RV320		042-05100-06	RES PRE 10K CAR 6MM FLAT
R722		036-15100-00	RES M/F 0805 10K 5%	RV330		042-06470-06	RES PRE 470/500K 25% 6MM T/ADJ
R723		036-14270-00	RES M/F 0805 2K7 5%	R330A		036-13390-00	RES M/F 0805 390E 5%
R725		036-15390-00	RES M/F 0805 39K 5%	RV805		042-05220-07	RES PRE 22K CAR 6MM FLAT D/ADJ
%R726		036-13100-00	RES M/F 0805 100E 5%				
R727		036-15100-00	RES M/F 0805 10K 5%	SK205		240-02020-05	SKT STEREO PHONE JACK PCB MTG
R728		036-15100-00	RES M/F 0805 10K 5%	SK310		240-02100-44	SKT COAX MINI JACK PCB MT ANG.
R742		036-13150-00	RES M/F 0805 150E 5%	SK420		240-02100-44	SKT COAX MINI JACK PCB MT ANG.
R743		036-13150-00	RES M/F 0805 150E 5%	SK501		240-04021-77	SKT JACK 1.3 PCB MT 64W
R744		036-12220-00	RES M/F 0805 22E 5%	SK502		240-04021-77	SKT JACK 1.3 PCB MT 64W
R746		036-12220-00	RES M/F 0805 22E 5%	SK503		240-04021-77	SKT JACK 1.3 PCB MT 64W
R747		036-12220-00	RES M/F 0805 22E 5%	SK504		240-04021-77	SKT JACK 1.3 PCB MT 64W
R748		036-15470-00	RES M/F 0805 47K 5%	SK505		240-04021-77	SKT JACK 1.3 PCB MT 64W
R749		036-15470-00	RES M/F 0805 47K 5%	SK513		240-04021-77	SKT JACK 1.3 PCB MT 64W
R750		036-12220-00	RES M/F 0805 22E 5%	SK522		240-04021-77	SKT JACK 1.3 PCB MT 64W
R752		036-12220-00	RES M/F 0805 22E 5%	SK531		240-04021-77	SKT JACK 1.3 PCB MT 64W
R753		036-17100-00	RES M/F 0805 1M 5%	SK532		240-04021-77	SKT JACK 1.3 PCB MT 64W
R754		036-14100-00	RES M/F 0805 1K 5%	SK533		240-04021-77	SKT JACK 1.3 PCB MT 64W
R756		036-16470-00	RES M/F 0805 470K 5%	SK534		240-04021-77	SKT JACK 1.3 PCB MT 64W
R757		036-16470-00	RES M/F 0805 470K 5%	SK535		240-04021-77	SKT JACK 1.3 PCB MT 64W
R758		036-14120-00	RES M/F 0805 1K2 5%	SK805		240-10000-07	CONN SMD SKT 18W 2R M-MATCH
R759		036-13330-00	RES M/F 0805 330E 5%	SK810		240-04020-42	SKT 44 PIN SMD PLCC
R760		036-13180-00	RES M/F 0805 180E 5%				
R762		036-13100-00	RES M/F 0805 100E 5%	SW230		232-00010-26	SWITCH PUSH SPDT R-ANG PCB MTG
R763		036-13100-00	RES M/F 0805 100E 5%				
R765		036-13680-00	RES M/F 0805 680E 5%	T210		053-00010-17	XFMR T4030 LINE MATCH POTCORE
R766		036-14100-00	RES M/F 0805 1K 5%	T610		050-00016-50	COIL TAIT NO 650 455KHZ
R767		036-13680-00	RES M/F 0805 680E 5%				
R769		036-13180-00	RES M/F 0805 180E 5%				
R771		036-14820-00	RES M/F 0805 8K2 5%				
R772		036-15220-00	RES M/F 0805 22K 5%				
R774		036-14820-00	RES M/F 0805 8K2 5%				
R775		036-14560-00	RES M/F 0805 5K6 5%				
R777		036-14220-00	RES M/F 0805 2K2 5%				
R784		036-12680-00	RES M/F 0805 68E 5%				
R785		036-14330-00	RES M/F 0805 3K3 5%				
R786		036-12100-00	RES M/F 0805 10E 5%				
R787		036-12100-00	RES M/F 0805 10E 5%				
R790		036-13220-00	RES M/F 0805 220E 5%				
R791		036-13100-00	RES M/F 0805 100E 5%				
R792		036-14100-00	RES M/F 0805 1K 5%				
R801		036-16150-00	RES M/F 0805 150K 5%				
R802		036-15470-00	RES M/F 0805 47K 5%				
R808		036-12100-00	RES M/F 0805 10E 5%				
R809		036-14470-00	RES M/F 0805 4K7 5%				
R810		036-14470-00	RES M/F 0805 4K7 5%				
R811		036-14470-00	RES M/F 0805 4K7 5%				
R812		036-14470-00	RES M/F 0805 4K7 5%				
R813		036-14470-00	RES M/F 0805 4K7 5%				
R815		036-15470-00	RES M/F 0805 47K 5%				
R816		036-16150-00	RES M/F 0805 150K 5%				
R818		036-14470-00	RES M/F 0805 4K7 5%				
R819		036-14470-00	RES M/F 0805 4K7 5%				
R821		036-15470-00	RES M/F 0805 47K 5%				
R822		036-15470-00	RES M/F 0805 47K 5%				
R824		036-14220-00	RES M/F 0805 2K2 5%				
R825		036-14220-00	RES M/F 0805 2K2 5%				
R826		036-14220-00	RES M/F 0805 2K2 5%				
R827		036-14220-00	RES M/F 0805 2K2 5%				
R828		036-14220-00	RES M/F 0805 2K2 5%				
R829		036-14220-00	RES M/F 0805 2K2 5%				
R830		036-14220-00	RES M/F 0805 2K2 5%				
R831		036-14220-00	RES M/F 0805 2K2 5%				
R832		036-14220-00	RES M/F 0805 2K2 5%				
R833		036-14220-00	RES M/F 0805 2K2 5%				
R835		036-14220-00	RES M/F 0805 2K2 5%				
R836		036-14220-00	RES M/F 0805 2K2 5%				
R837		036-14220-00	RES M/F 0805 2K2 5%				
R840		036-14220-00	RES M/F 0805 2K2 5%				
R841		036-14220-00	RES M/F 0805 2K2 5%				
R842		036-14220-00	RES M/F 0805 2K2 5%				
R843		036-14220-00	RES M/F 0805 2K2 5%				
R845		036-13470-00	RES M/F 0805 470E 5%				

T836 Grid Reference Index (IPN 220-01395-02)

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
C201	1:C1	2-B8	C314	1:E8	3-J8	C477	2:H8	4-P8	C769	1:H4	7-N4
C202	1:C1	2-C8	C316	1:E8	3-K8	C495	1:G8	4-P1	C770	1:H4	7-N4
C204	1:A2	2-E8	C317	1:F9	3-L7	C503	1:K6	5-L9	C772	1:G4	7-N2
C205	1:A2	2-E8	C318	1:F9	3-M7	C505	1:K6	5-M6	C774	1:H4	7-P2
C207	1:C7	2-B6	C320	1:F8	3-N8	C510	1:J5	5-C0	C776	1:H4	7-N1
C209	1:C6	2-D6	C332	2:E4	3-B5	C513	1:H5	5-G2	C782	1:G2	7-N1
C210	1:C7	2-H0	C334	2:E4	3-D4	C535	1:K5	5-M2	C784	1:G2	7-Q1
C211	1:B7	2-F8	C336	2:E4	3-O5	C550	1:K4	5-L0	C786	1:G2	7-R1
C213	1:B6	2-G8	C338	2:E5	3-F5	C605	1:L6	6-D8	C788	1:G3	7-P0
C215	1:B6	2-G8	C340	2:E5	3-F5	C623	1:M6	6-N8	C790	1:G3	7-Q0
C217	1:C6	2-H8	C342	2:E4	3-G6	C625	1:M6	6-Q8	C792	1:G3	7-Q0
C219	1:C6	2-H7	C343	1:E7	3-K5	C626	1:M6	6-R8	C810	1:L3	8-K8
C221	1:D5	2-G6	C344	1:E7	3-K5	C628	1:M6	6-R8	C812	1:L2	8-F5
C223	1:C5	2-J6	C345	1:E8	3-K6	C630	1:M5	6-K5	C813	1:K2	8-H5
C225	1:C3	2-K7	C346	1:E8	3-L6	C634	1:N5	6-M4	C822	1:M2	8-B2
C227	1:B4	2-K7	C347	1:E8	3-M6	C636	1:M5	6-M4	C823	1:M3	8-C2
C229	1:B3	2-L7	C348	1:E8	3-P6	C638	1:M6	6-P5	C824	1:M2	8-C1
C230	1:B4	2-H0	C349	2:F4	3-C2	C640	1:M5	6-R6	C826	1:N3	8-C0
C232	1:A4	2-M7	C350	2:F4	3-E3	C655	1:M4	6-C1	C827	1:N3	8-D0
C233	1:A5	2-N7	C353	2:F4	3-D0	C660	1:L5	6-K1	C828	1:N3	8-E0
C235	1:B5	2-K5	C356	2:E4	3-F1	C665	1:L5	6-K1	C830	1:N3	8-R1
C237	1:C4	2-K5	C359	2:E5	3-G1	C670	1:L6	6-L1	C838	1:N4	8-F0
C239	1:C4	2-L4	C362	2:F4	3-G2	C673	1:L5	6-P2	C841	1:N2	8-K2
C241	1:B4	2-M6	C365	2:F4	3-G2	C677	1:L6	6-P1	C844	1:M2	8-L2
C242	1:B3	2-L6	C368	2:F5	3-H2	C681	1:M5	6-R3	C910	2:P8	9-E4
C243	1:B4	2-P6	C370	2:F5	3-K3	C684	1:M5	6-R3	C920	2:P7	9-F4
C245	1:C5	2-A4	C373	1:E6	3-L4	C687	1:L6	6-Q1	C930	2:P7	9-G4
C247	1:D4	2-B4	C376	1:F8	3-M4	C690	1:L6	6-R1	C940	2:P7	9-H4
C249	1:D4	2-C4	C379	2:F5	3-K3	C693	1:L6	6-R1	C950	2:P6	9-J4
C251	1:C3	2-E4	C382	2:E5	3-L2	C700	1:K4	7-A8	C330A	1:F8	3-L0
C253	1:D3	2-E3	C385	1:F6	3-P4	C703	1:J3	7-B7	C330B	1:F9	3-M0
C255	1:D3	2-D2	C388	2:F7	3-Q4	C705	1:J3	7-B7	C610A	1:M5	6-F8
C257	1:D3	2-F2	C391	2:E6	3-P2	C706	1:J2	7-B5	C610B	1:M5	6-G8
C259	1:C6	2-J2	C394	2:E6	3-P3	%C707	1:K4	7-C8	C611A	1:L5	6-H8
C260	1:D8	2-G0	C396	2:E6	3-R3	C708	1:J2	7-C9	C611B	1:M5	6-J8
C261	1:C6	2-K2	C403	2:H8	4-B4	C709	1:K4	7-D9	C631A	1:M5	6-M6
C263	1:D6	2-L3	C406	2:H8	4-C4	C710	1:J3	7-E8	C740A	1:H2	7-B4
C265	1:D5	2-N4	C409	2:J7	4-D5	C712	1:H2	7-E7	C740B	1:H2	7-B3
C267	1:C8	2-P3	C412	2:J7	4-D5	%C713	1:H2	7-E6	C741A	1:H2	7-C4
&C269	1:C8	2-P3	C415	2:K8	4-E4	C720	1:J3	7-F8	C741B	1:G2	7-C3
C271	1:C8	2-Q3	C418	2:K7	4-E4	C722	1:J4	7-G8	C742A	1:H2	7-D4
C273	1:C8	2-Q4	C421	2:K7	4-F4	C724	1:J4	7-H6	C742B	1:H3	7-D3
C275	1:D3	2-E1	C424	2:N7	4-E6	C725	1:J4	7-J6			
C277	1:C4	2-G1	C427	1:N7	4-F6	C726	1:K4	7-J6			
C279	1:B4	2-G1	C430	1:M7	4-F5	C727	1:J3	7-J8			
C281	1:B5	2-J1	C433	2:M7	4-G5	C729	1:H3	7-M8	D111	1:P4	1-R1
C283	1:B5	2-K0	C436	2:L7	4-G5	%C733	1:J3	7-M5	%D205	1:B2	2-D9
C285	1:D7	2-L0	C439	2:L8	4-H5	C735	1:J2	7-A1	%D210	1:B2	2-E9
C287	1:C6	2-M1	C442	2:L8	4-H4	C736	1:J2	7-B1	D220	1:B4	2-P7
C289	1:C8	2-N1	C445	2:L8	4-J4	C743	1:H2	7-B1	D220	1:B4	2-P6
C291	1:D7	2-P1	#C448	2:M8	4-K4	C745	1:G3	7-D1	D230	1:B7	2-R5
C293	1:D7	2-Q1	C454	2:M8	4-L5	C750	1:H4	7-Q7	D240	1:D4	2-C4
%C294	1:D7	2-Q0	C457	2:M7	4-L5	C757	1:G4	7-F5	D240	1:D4	2-B2
%C295	1:D6	2-Q0	C460	2:N7	4-N6	C759	1:G4	7-G4	D250	1:D3	2-E2
C302	1:F7	3-C8	C463	2:M8	4-N6	C761	1:G3	7-J4	D250	1:D3	2-D3
C308	1:F8	3-C6	C466	2:N8	4-N4	C762	1:G3	7-K4	D260	1:C2	2-C2
C310	1:F8	3-D6	C469	2:N9	4-N3	C764	1:H3	7-J2	D260	1:C2	2-C2
C312	1:F8	3-G7	C472	2:M8	4-P3	C765	1:G3	7-K2	D270	1:D2	2-C1
C313	1:E9	3-H7	C475	2:J8	4-N8	C767	1:H3	7-K3	D270	1:D2	2-C1

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
R295	1:D8	2-R1	R435	2:K8	4-H5	R754	1:G3	7-F3	R879	1:N2	8-L3
R296	1:D6	2-P0	R440	2:N7	4-M6	R756	1:G3	7-G5	R330A	1:F9	3-L0
R297	1:D7	2-P1	R445	2:N8	4-N5	R757	1:G4	7-G4			
%R298	1:D7	2-Q0	R450	2:M8	4-M4	R758	1:H3	7-H4	RV210	1:B7	2-F9
R299	1:C7	2-R0	R455	2:N8	4-N3	R759	1:H3	7-J4	RV220	1:A4	2-M6
R301	1:F8	3-A8	R460	1:J9	4-M8	R760	1:H3	7-K4	RV310	1:F7	3-B7
R302	1:F8	3-A8	R502	1:K6	5-K9	R762	1:H3	7-K4	RV320	1:E7	3-G9
R303	1:F8	3-B8	R505	1:K6	5-L8	R763	1:H4	7-L4	RV330	1:F7	3-G8
R304	1:F7	3-C9	R510	1:K6	5-L7	R765	1:H3	7-H2	RV805	1:N4	8-F1
R307	1:F8	3-D7	R515	1:H6	5-J5	R766	1:G3	7-J3			
R308	1:F8	3-E7	R520	1:J5	5-C1	R767	1:H3	7-K2	SK205	1:B5	2-A5
R309	1:F8	3-F7	R525	1:J5	5-D1	R769	1:H3	7-L3	SK310	1:E7	3-R3
R310	1:F8	3-F7	R530	1:J5	5-D0	R771	1:H4	7-M3	SK420	1:H8	4-A4
R311	1:E8	3-G9	R535	1:J5	5-E1	R772	1:G4	7-M2	SK501	1:G6	5-D6
R312	1:E7	3-G8	R540	1:K5	5-H2	R774	1:H4	7-M2	SK502	1:G6	5-D5
R313	1:E8	3-G9	R545	1:K5	5-J1	R775	1:H4	7-N2	SK503	1:G6	5-D4
R314	1:E8	3-H8	R550	1:K5	5-K2	R777	1:H4	7-R3	SK504	1:G5	5-D3
R315	1:E8	3-H9	R555	1:K5	5-K1	R784	1:G3	7-P1	SK505	1:G5	5-D2
R316	1:E8	3-H8	R560	1:K5	5-M0	R785	1:G3	7-Q1	SK513	1:H5	5-H3
R317	1:E8	3-H7	R609	1:L6	6-B8	R786	1:G2	7-Q1	SK522	1:H6	5-K5
R318	1:E8	3-J8	R613	1:L6	6-C8	R787	1:G2	7-R2	SK531	1:K6	5-N6
R320	1:E8	3-J9	R615	1:M5	6-F9	R790	1:G3	7-P0	SK532	1:K5	5-N5
R321	1:E8	3-J9	R617	1:M5	6-J8	R791	1:G3	7-Q0	SK533	1:K5	5-N4
R322	1:E8	3-J8	R619	1:M6	6-L8	R792	1:G3	7-Q0	SK534	1:K5	5-N3
R323	1:E9	3-L8	R621	1:M6	6-L8	R801	1:M2	8-D7	SK535	1:K5	5-N2
R324	1:E9	3-L8	R625	1:N6	6-L7	R802	1:M2	8-D7	=SK710	1:K3	7-A7
R325	1:F8	3-M8	R629	1:M5	6-P6	R808	1:L2	8-B4	SK805	1:K3	8-Q9
R326	1:F8	3-N8	R633	1:M5	6-Q8	R809	1:L2	8-D5	SK805	1:K3	8-Q7
R327	1:F8	3-N7	R637	1:N5	6-K6	R810	1:L2	8-D6	SK805	1:K3	8-Q5
R328	1:F8	3-P7	R641	1:N5	6-L4	R811	1:L2	8-E6	SK805	1:K3	8-Q7
R332	2:E4	3-C5	R645	1:N5	6-L5	R812	1:L2	8-D5	SK805	1:K3	8-Q8
R334	2:E4	3-D6	R649	1:M5	6-M5	R813	1:L2	8-D4	SK805	1:K3	8-Q7
R336	2:E4	3-D4	R653	1:M5	6-Q4	R815	1:L2	8-F4	SK805	1:K3	8-Q8
R338	2:E4	3-D4	R657	1:M5	6-D1	R816	1:L2	8-F4	SK805	1:K3	8-Q6
R340	2:E4	3-D4	R661	1:M5	6-E3	R818	1:M2	8-F5	SK805	1:K3	8-Q8
R342	2:E4	3-F5	R665	1:M5	6-E2	R819	1:M2	8-F5	SK805	1:K3	8-Q6
R344	2:E5	3-F5	R669	1:M5	6-E2	R821	1:M4	8-B3	SK805	1:K3	8-Q6
R346	2:E5	3-F6	R673	1:M5	6-E0	R822	1:M4	8-E3	SK805	1:K3	8-Q9
R347	2:E5	3-G5	R677	1:M4	6-F4	R824	1:L4	8-L8	SK805	1:K3	8-Q6
R348	1:E8	3-G6	R681	1:L5	6-L2	R825	1:L4	8-L8	SK805	1:K3	8-Q9
R349	1:E7	3-J6	R685	1:L5	6-N2	R826	1:L4	8-L8	SK805	1:K3	8-Q7
R350	1:E7	3-K5	R689	1:L6	6-Q3	R827	1:L4	8-L7	SK805	1:K3	8-Q8
R351	1:E8	3-K5	R693	1:L6	6-Q1	R828	1:L4	8-L7	SK810	1:M3	8-H5
R352	1:E8	3-L5	R696	1:M6	6-Q1	R829	1:L4	8-P9			
R353	1:E8	3-J6	R701	1:K4	7-A9	R830	1:L3	8-P9	SL201	2:D1	2-B9
R354	1:E8	3-L6	R702	1:K4	7-C9	R831	1:L3	8-P9	SL202	2:D1	2-B8
R355	1:E8	3-N6	R703	1:J3	7-C8	R832	1:L3	8-P8	SL203	2:D2	2-B1
R356	1:E8	3-N6	=R705	1:K3	7-A7	R833	1:L3	8-P8	SL204	2:D2	2-B1
R357	1:E8	3-P6	R706	1:J3	7-B6	R835	1:L3	8-P8	SL320	1:E4	3-E3
R358	1:E8	3-P5	R708	1:H3	7-C7	R836	1:L3	8-P8	SL501	2:J5	5-F0
R359	1:F5	3-B2	R710	1:H2	7-E7	R837	1:L3	8-P7	SL810	1:M2	8-C7
R360	1:F4	3-C2	R711	1:J2	7-B6	R840	1:L3	8-P7			
R362	1:F4	3-C2	R712	1:J3	7-D9	R841	1:L3	8-P7	SW230	1:B8	2-B4
R364	2:F4	3-D2	R713	1:J4	7-F8	R842	1:L3	8-P6			
R366	2:F4	3-D1	%R715	1:K4	7-H6	R843	1:L3	8-P6	T210	1:B2	2-C8
R368	2:F4	3-D0	R717	1:J4	7-H7	R845	1:M4	8-Q5	T610	1:L5	6-N2
R370	2:F4	3-E1	R718	1:J4	7-H7	R846	1:K2	8-Q4			
R372	2:E5	3-G1	R719	1:J4	7-J6	R847	1:K2	8-Q4	TP206	1:D5	2-H7
R374	2:F5	3-J2	R720	1:J3	7-K7	R848	1:L2	8-J4	TP305	1:E4	3-E5
R376	2:F5	3-J3	R721	1:J3	7-K9	R849	1:M4	8-Q3	TP308	1:E5	3-G5
R378	1:F5	3-J3	R722	1:J3	7-K8	R850	1:K2	8-Q4	TP309	1:E8	3-R9
R380	1:F5	3-J4	R723	1:H3	7-M7	R853	1:M4	8-N3	TP310	1:E8	3-R9
R382	1:F5	3-K4	R725	1:J4	7-N7	R854	1:M4	8-N3	TP313	1:F8	3-C7
R384	2:E6	3-L3	%R726	1:J3	7-N6	R855	1:M2	8-B0	TP314	1:E8	3-F8
R386	2:E6	3-M2	R727	1:H3	7-N9	R859	1:N2	8-C1	TP401	1:G7	4-E6
R388	1:F6	3-M4	R728	1:H3	7-N8	R861	1:N2	8-D1	TP402	1:F7	3-A9
R390	1:E6	3-Q3	R742	1:H2	7-B4	R863	1:N3	8-E1	TP409	1:L9	4-P4
R392	1:E6	3-Q2	R743	1:H2	7-C5	R865	1:N4	8-E0	TP410	1:M8	4-N6
R394	1:E6	3-Q3	R744	1:G2	7-D4	R867	1:N3	8-E1	TP601	1:N5	6-K9
R396	1:E6	3-Q2	R746	1:H3	7-E4	R871	1:N3	8-G2	TP602	1:L6	6-R9
R405	1:H7	4-D4	R747	1:H3	7-E5	R872	1:M4	8-H1	TP603	1:L5	6-J2
R410	1:J7	4-C5	R748	1:J2	7-A1	R873	1:N3	8-G1	TP604	1:L5	6-M6
R415	1:J7	4-D5	R749	1:J2	7-B1	R874	1:N3	8-H0	TP607	1:L4	6-J9
R420	2:K8	4-G4	R750	1:H4	7-Q7	R875	1:N3	8-G0	TP710	1:H4	7-H5
R425	1:M7	4-G5	R752	1:G4	7-F5	R876	1:N3	8-H0	TP715	1:J2	7-C6
R430	1:M7	4-G5	R753	1:G4	7-F3	R877	1:M2	8-K2			

T836 Grid Reference Index

DES	CCT	PCB
A2	nil	1-A1
B836	2:E2	10-K5
B836	2:E2	10-L5
B83610	2:F2	10-G5
B83613	2:F2	10-H5
B83615	2:F2	10-H5
B83620	2:F2	10-J5
B83623	2:F2	10-J5
B83625	2:F2	10-J5
B83626	2:E2	10-K5
BOTFIDA	2:A8	10-J3
BOTFIDB	2:P2	10-K3
BOTHOLE	2:B1	10-C3
BOTSL0T	2:P1	10-D3
C201	1:C1	2-B8
C202	1:C1	2-C8
C204	1:A2	2-E8
C205	1:A2	2-E8
C207	1:C7	2-B6
C209	1:C6	2-D6
C210	1:C7	2-H0
C211	1:B7	2-F8
C213	1:B6	2-G8
C215	1:B6	2-G8
C217	1:C6	2-H8
C219	1:C6	2-H7
C221	1:D5	2-G6
C223	1:C5	2-J6
C225	1:C3	2-K7
C227	1:B4	2-K7
C229	1:B3	2-L7
C230	1:B4	2-H0
C232	1:A4	2-M7
C233	1:A5	2-N7
C235	1:B5	2-K5
C237	1:C4	2-K5
C239	1:C4	2-L4
C241	1:B4	2-M6
C242	1:B3	2-L6
C243	1:B4	2-P6
C245	1:C5	2-A4
C247	1:D4	2-B4
C249	1:D4	2-C4
C251	1:C3	2-E4
C253	1:D3	2-E3
C255	1:D3	2-D2
C257	1:D3	2-F2
C259	1:C6	2-J2
C260	1:D8	2-G0
C261	1:C6	2-K2
C263	1:D6	2-L3
C265	1:D5	2-N4
C267	1:C8	2-P3
#C269	1:C8	2-P3
C271	1:C8	2-Q3
C273	1:C8	2-Q4
C275	1:D3	2-E1
C277	1:C4	2-G1
C279	1:B4	2-G1
C281	1:B5	2-J1
C283	1:B5	2-K0
C285	1:D7	2-L0
C287	1:C6	2-M1
C289	1:C8	2-N1
C291	1:D7	2-P1
C293	1:D7	2-Q1
#C294	1:D7	2-Q0
#C295	1:D6	2-Q0
C302	1:F7	3-C8
C308	1:F8	3-C6
C310	1:F8	3-D6

Device	PCB	Circuit
C312	1:F8	3-G7
C313	1:E9	3-H7
C314	1:E8	3-J8
C316	1:E8	3-K8
C317	1:F9	3-L7
C318	1:F9	3-M7
C320	1:F8	3-N8
C332	2:E4	3-B5
C334	2:E4	3-D4
C336	2:E4	3-D5
C338	2:E5	3-F5
C340	2:E5	3-F5
C342	2:E4	3-G6
C343	2:F4	3-E3
C344	1:E7	3-K5
C345	1:E8	3-K6
C346	1:E8	3-L6
C347	1:E8	3-M6
C348	1:E8	3-P6
C349	2:F4	3-C2
C353	2:F4	3-D0
C356	2:E4	3-F1
C359	2:E5	3-G1
C362	2:F4	3-G2
C365	2:F4	3-G2
C368	2:F5	3-H2
C370	2:F5	3-K3
C373	1:E6	3-L4
C376	1:F8	3-M4
C379	2:F5	3-K3
C382	2:E5	3-L2
C385	1:F6	3-P4
C388	2:F7	3-Q4
C391	2:E6	3-P2
C394	2:E6	3-P3
C396	2:E6	3-R3
C403	2:H8	4-B4
C406	2:H8	4-C4
C409	2:J7	4-D5
C412	2:J7	4-D5
C415	2:K8	4-E4
C418	2:K7	4-E4
C421	2:K7	4-F4
C424	2:N7	4-E6
C427	1:N7	4-F6
C430	1:M7	4-F5
C433	2:M7	4-G5
C436	2:L7	4-G5
C439	2:L8	4-H5
C442	2:L8	4-H4
C445	2:L8	4-J4
#C448	2:M8	4-K4
C454	2:M8	4-L5
C457	2:M7	4-L5
C460	2:N7	4-N6
C463	2:M8	4-N6
C466	2:N8	4-N4
C469	2:N9	4-N3
C472	2:M8	4-P3
C475	2:J8	4-N8
C477	2:H8	4-P8
C495	1:G8	4-P1
C503	1:K6	5-L9
C505	1:K6	5-M6
C510	1:J5	5-C0
C513	1:H5	5-G2
C535	1:K5	5-M2
C550	1:K4	5-L0
C605	1:L6	6-D8
C623	1:M6	6-N8
C625	1:M6	6-Q8
C626	1:M6	6-R8
C628	1:M6	6-R8
C630	1:M5	6-K5
C634	1:N5	6-M4
C636	1:M5	6-M4

Device	PCB	Circuit
C638	1:M6	6-P5
C640	1:M5	6-R6
C655	1:M4	6-C1
C660	1:L5	6-K1
C665	1:L5	6-K1
C670	1:L6	6-L1
C673	1:L5	6-P2
C677	1:L6	6-P1
C681	1:M5	6-R3
C684	1:M5	6-R3
C687	1:L6	6-Q1
C690	1:L6	6-R1
C693	1:L6	6-R1
C700	1:K4	7-A8
C703	1:J3	7-B7
C705	1:J3	7-B7
C706	1:J2	7-B5
#C707	1:K4	7-C8
C708	1:J2	7-C9
C709	1:K4	7-D9
C710	1:J3	7-E8
C712	1:H2	7-E7
%C713	1:H2	7-E6
C720	1:J3	7-F8
C722	1:J4	7-G8
C724	1:J4	7-H6
C725	1:J4	7-J6
C726	1:K4	7-J6
C727	1:J3	7-J8
C729	1:H3	7-M8
%C733	1:J3	7-M5
C735	1:J2	7-A1
C736	1:J2	7-B1
C743	1:H2	7-B1
C745	1:G3	7-D1
C750	1:H4	7-Q7
C757	1:G4	7-F5
C759	1:G4	7-G4
C761	1:G3	7-J4
C762	1:G3	7-K4
C764	1:H3	7-J2
C765	1:G3	7-K2
C767	1:H3	7-K3
C769	1:H4	7-N4
C770	1:H4	7-N4
C772	1:G4	7-N2
C774	1:H4	7-P2
C776	1:H4	7-N1
C782	1:G2	7-N1
C784	1:G2	7-Q1
C786	1:G2	7-R1
C788	1:G3	7-P0
C790	1:G3	7-Q0
C792	1:G3	7-Q0
C810	1:L3	8-K8
C812	1:L2	8-F5
C813	1:K2	8-H5
C822	1:M2	8-B2
C823	1:M3	8-C2
C824	1:M2	8-C1
C826	1:N3	8-C0
C827	1:N3	8-D0
C828	1:N3	8-E0
C830	1:N3	8-R1
C838	1:N4	8-F0
C841	1:N2	8-K2
C844	1:M2	8-L2
C910	2:P8	9-E4
C920	2:P7	9-F4
C930	2:P7	9-G4
C940	2:P7	9-H4
C950	2:P6	9-J4
C330A	1:F8	3-L0
C330B	1:F9	3-M0
C610A	1:M5	6-F8
C610B	1:M5	6-G8

Device	PCB	Circuit
C611A	1:L5	6-H8
C611B	1:M5	6-J8
C631A	1:M5	6-M6
C740A	1:H2	7-B4
C740B	1:H2	7-B3
C741A	1:H2	7-C4
C741B	1:G2	7-C3
C742A	1:H2	7-D4
C742B	1:H3	7-D3
CV451	1:M8	4-K4
D111	1:P4	1-R1
%D205	1:B2	2-D9
%D210	1:B2	2-E9
D220	1:B4	2-P7
D220	1:B4	2-P6
D230	1:B7	2-R5
D240	1:D4	2-C4
D240	1:D4	2-B2
D250	1:D3	2-E2
D250	1:D3	2-D3
D260	1:C2	2-C2
D260	1:C2	2-C2
D270	1:D2	2-C1
D270	1:D2	2-C1
D330	1:E9	3-N0
D340	2:F4	3-D2
D350	2:F4	3-E2
D360	2:F4	3-E2
D410	1:M7	4-M5
D420	1:N8	4-N4
D610	1:N6	6-K6
D610	1:N6	6-L6
D620	1:N4	6-B1
D620	1:N4	6-B2
D630	1:M5	6-G2
D630	1:M5	6-G3
D635	1:M4	6-G3
D640	1:L5	6-M2
D640	1:L5	6-M1
D710	1:J3	7-L8
D710	1:J3	7-L8
D720	1:H3	7-P8
D720	1:H3	7-P8
D730	1:H3	7-H1
D740	1:H3	7-K2
D810	1:M2	8-B7
E3	nil	1-E2
H9	nil	1-Q7
IC210	1:C7	2-H0
IC210	1:C7	2-Q0
IC210	1:C7	2-K2
IC210	1:C7	2-C6
IC210	1:C7	2-L1
IC220	1:D6	2-P0
IC220	1:D6	2-M3
IC220	1:D6	2-D5
IC230	1:B4	2-G0
IC230	1:B4	2-J0
IC230	1:B4	2-L5
IC230	1:B4	2-N6
IC230	1:B4	2-G1
IC240	1:D4	2-F3
IC250	1:D3	2-E1
IC260	1:D8	2-Q2
IC260	1:D8	2-F0
IC260	1:D8	2-Q3
IC260	1:D8	2-N3
IC260	1:D8	2-N0
IC330	1:F8	3-K8
IC330	1:F8	3-L0
IC330	1:F8	3-D6
IC610	1:M5	6-G8
IC630	1:N5	6-K5
IC640	1:M5	6-F1
IC640	1:M5	6-N6
IC640	1:M5	6-Q6

FCC ID: CASTEL0004
 MODEL: T836-16-0000
 2.983 (d) (6) DEVTCP

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
IC650	1:L5	6-F4	P212	1:D6	2-A6	Q710	1:J3	7-K8	R269	1:C2	2-C1
=IC700	1:K3	7-A8	P215	1:D4	2-A2	Q720	1:J3	7-K8	R270	1:C2	2-D1
IC710	1:J2	7-E8	P217	1:D4	2-A2	Q730	1:H3	7-N8	R271	1:C3	2-E1
IC710	1:J2	7-G0	P219	1:D2	2-A1	Q740	1:H3	7-N8	R272	1:C4	2-F2
IC710	1:J2	7-D6	P225	1:D2	2-A0	Q750	1:G4	7-F3	R273	1:B5	2-G2
IC710	1:J2	7-D7	P230	1:C5	2-B0	Q760	1:H3	7-H3	R274	1:C4	2-G1
IC710	1:J2	7-D6	P231	1:D8	2-B0	Q770	1:H3	7-H1	R275	1:C4	2-H0
IC710	1:J2	7-C6	P233	1:C1	2-R9	Q775	1:H3	7-K3	R277	1:B5	2-J1
IC710	1:J2	7-C6	P235	1:C1	2-R9	Q780	1:H3	7-K3	R278	1:B5	2-J0
IC720	1:J3	7-M7	P237	1:B7	2-R8	Q785	1:H3	7-K2	R279	1:B5	2-K0
IC720	1:J3	7-J0	P239	1:C7	2-R8	Q790	1:H4	7-M3	R280	1:B5	2-K0
IC720	1:J3	7-K7	P240	1:C7	2-R8	Q795	1:G3	7-P0	R282	1:D7	2-K1
IC720	1:J3	7-F8	P243	1:B7	2-R7	Q810	1:M2	8-E7	R283	1:D7	2-L1
IC720	1:J3	7-N7	P244	1:B7	2-R7	Q820	1:L2	8-D5	R284	1:D7	2-L0
IC720	1:J3	7-P6	P245	1:B8	2-R6	Q830	1:L2	8-D5	R285	1:C8	2-M0
IC720	1:J3	7-K0	P247	1:B8	2-R6	Q840	1:L2	8-F5	R286	1:C7	2-M0
IC730	1:J4	7-H8	P248	1:B7	2-R6	Q850	1:M2	8-G5	R287	1:D9	2-M0
IC730	1:J4	7-G7	P249	1:C7	2-R5	Q860	1:L4	8-B3	R288	1:C6	2-M2
IC740	1:H2	7-D1	P251	1:C7	2-R5	R6	nil	1-L5	R289	1:D9	2-M0
IC750	1:H4	7-N3	P255	1:D5	2-R4	%R150	1:P2	1-R4	R290	1:C8	2-N2
IC750	1:H4	7-H5	P257	1:C2	2-R4	R160	1:P2	1-R3	R291	1:C8	2-N1
IC750	1:H4	7-Q7	P259	1:B8	2-R3	R201	1:B2	2-E9	R292	1:D8	2-Q2
IC820	1:L4	8-N2	P261	1:B8	2-R3	R202	1:C1	2-F9	R293	1:D9	2-Q2
IC830	1:N3	8-J0	P263	1:B2	2-R2	R204	1:C7	2-B6	R294	1:D9	2-Q1
IC830	1:N3	8-Q1	P265	1:C5	2-M0	R205	1:C7	2-D6	R295	1:D8	2-R1
IC830	1:N3	8-J0	P267	1:C8	2-N2	R206	1:B7	2-G8	R296	1:D6	2-P0
IC830	1:N3	8-J1	P269	1:D8	2-P2	R207	1:B6	2-G8	R297	1:D7	2-P1
IC830	1:N3	8-C0	P271	1:C9	2-N1	R208	1:B6	2-G8	#R298	1:D7	2-Q0
L335	1:F4	3-E3	P273	1:D9	2-P0	R209	1:C6	2-H8	R299	1:C7	2-R0
L340	1:E5	3-G2	P275	1:D7	2-Q0	R210	1:B6	2-H7	R301	1:F8	3-A8
L345	1:F5	3-H2	P750	1:H4	7-R3	R212	1:D4	2-F6	R302	1:F8	3-A8
L350	1:F5	3-J2	P805	1:M2	8-A7	R213	1:C4	2-G6	R303	1:F8	3-B8
L355	1:F5	3-K3	P810	1:L3	8-A5	R214	1:D4	2-G6	R304	1:F7	3-C9
L360	1:F5	3-L3	P820	1:L4	8-M8	R215	1:C4	2-H6	R307	1:F8	3-D7
L365	1:E5	3-L3	P825	1:L4	8-M8	R216	1:C3	2-K7	R308	1:F8	3-E7
L370	1:E5	3-M2	P830	1:L4	8-M8	R217	1:A4	2-M8	R309	1:F8	3-F7
L375	1:E6	3-M4	P835	1:L4	8-M7	R218	1:A4	2-N7	R310	1:F8	3-F7
L380	1:F6	3-N4	P840	1:L4	8-M7	R219	1:B4	2-N8	R311	1:E7	3-G9
L385	1:F6	3-P3	PL100	1:P3	1-F0	R221	1:B7	2-R7	R312	1:E7	3-G8
L400	1:H8	4-C4	PL205	1:C5	2-J8	R223	1:B4	2-K6	R313	1:E8	3-G9
L405	2:H8	4-C4	PL210	1:C3	2-H4	R224	1:C4	2-K5	R314	1:E8	3-H8
L410	1:H8	4-D4	PL215	1:C4	2-K3	R225	1:B4	2-L5	R315	1:E8	3-H9
L415	1:H8	4-D3	PL220	1:C4	2-H2	R226	1:B4	2-L4	R316	1:E8	3-H8
L420	1:J7	4-E6	Q210	1:C6	2-J8	R227	1:B4	2-M4	R317	1:E8	3-H7
L425	1:J7	4-E5	Q220	1:B3	2-L7	R229	1:B4	2-M7	R318	1:E8	3-J8
L430	2:K8	4-F4	Q230	1:A4	2-M8	R230	1:B4	2-M6	R320	1:E8	3-J9
L435	2:K8	4-F4	Q240	1:B7	2-Q7	R231	1:B4	2-M6	R321	1:E8	3-J9
L440	1:J8	4-G4	Q250	1:B7	2-R5	R232	1:B4	2-M5	R322	1:E8	3-J8
L445	1:M7	4-H6	Q260	1:C4	2-F3	R233	1:B4	2-M6	R323	1:E9	3-L8
L450	1:L7	4-H5	Q270	1:D2	2-D1	R235	1:B4	2-P6	R324	1:E9	3-L8
L455	1:L7	4-H5	Q305	1:F8	3-G7	R237	1:B7	2-Q7	R325	1:F8	3-M8
L460	2:L8	4-J5	Q310	1:F9	3-M8	R238	1:B7	2-R7	R326	1:F8	3-N8
L465	1:M8	4-J5	Q315	1:F8	3-P8	R239	1:B8	2-R6	R327	1:F8	3-N7
L470	1:M8	4-L5	Q320	2:E5	3-A5	R241	1:B8	2-Q6	R328	1:F8	3-P7
L475	1:M8	4-N6	Q325	2:E4	3-C5	R242	1:B7	2-Q5	R332	2:E4	3-C5
L480	1:N8	4-N4	Q330	2:E4	3-D4	R244	1:C6	2-A5	R334	2:E4	3-D6
L485	1:M9	4-N4	Q335	2:E4	3-E5	R245	1:D4	2-D4	R336	2:E4	3-D4
L490	1:J9	4-N8	Q340	1:E7	3-H5	R247	1:D3	2-E4	R338	2:E4	3-D4
L495	1:G8	4-N1	Q345	1:E7	3-J5	R248	1:C3	2-E3	R340	2:E4	3-D4
L750	1:G4	7-R0	Q350	1:E8	3-K6	R249	1:D4	2-F3	R342	2:E4	3-F5
L910	1:P8	9-E5	Q355	1:E8	3-M6	R251	1:C4	2-G4	R344	2:E5	3-F5
L920	1:P7	9-F5	Q360	1:E8	3-P6	R253	1:C6	2-J2	R346	2:E5	3-F6
L930	1:P7	9-G5	Q365	1:F5	3-K2	R254	1:C6	2-K3	R348	2:E5	3-G5
L940	1:P6	9-H5	Q370	1:E5	3-N3	R255	1:C7	2-K2	R349	1:E8	3-G6
L950	2:P7	9-G4	Q415	2:J8	4-E4	R256	1:D8	2-M3	R350	1:E7	3-J6
M8	nil	1-L2	Q425	2:K8	4-H4	R257	1:D8	2-N5	R351	1:E8	3-K5
O10	nil	1-M0	Q510	1:J5	5-D1	R258	1:D8	2-N4	R352	1:E8	3-L5
P4	nil	1-G7	Q520	1:J5	5-H2	R259	1:D5	2-P4	R353	1:E8	3-J6
P100	1:Q6	1-R8	Q530	1:J5	5-H0	R260	1:D8	2-N4	R354	1:E8	3-L6
P150	1:P2	1-Q4	Q540	1:K5	5-L2	R262	1:D8	2-N3	R355	1:E8	3-N6
P160	1:P2	1-Q4	Q550	1:K5	5-L0	R263	1:C8	2-P3	R356	1:E8	3-N6
P170	1:P2	1-Q3	Q610	1:L6	6-E8	#R264	1:C8	2-P3	R357	1:E8	3-P6
P204	1:D1	2-A8	Q620	1:N6	6-P8	#R265	1:C8	2-P3	R358	1:E8	3-P5
P208	1:D1	2-A8	Q630	1:M6	6-P5	#R266	1:C8	2-P3	R359	1:F5	3-B2
P210	1:D6	2-A7	Q660	1:L5	6-N1	R267	1:C8	2-R2	R360	1:F4	3-C2
P211	1:D5	2-A7	Q670	1:L6	6-Q2	R268	1:D2	2-C0	R362	1:F4	3-C2

Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit	Device	PCB	Circuit
R364	2:F4	3-D2	R713	1:J4	7-F8	R842	1:L3	8-P6	T836_	1:D2	10-E5
R366	2:F4	3-D1	%R715	1:K4	7-H6	R843	1:L3	8-P6	T83610	1:F2	10-B5
R368	2:F4	3-D0	R717	1:J4	7-H7	R845	1:M4	8-Q5	T83613	1:F2	10-B5
R370	2:F4	3-E1	R718	1:J4	7-H7	R846	1:K2	8-Q4	T83615	1:F2	10-B5
R372	2:E5	3-G1	R719	1:J4	7-J6	R847	1:K2	8-Q4	T83620	1:F2	10-C5
R374	2:F5	3-J2	R720	1:J3	7-K7	R848	1:L2	8-J4	T83623	1:F2	10-C5
R376	2:F5	3-J3	R721	1:J3	7-K9	R849	1:M4	8-Q3	T83625	1:F2	10-D5
R378	1:F5	3-J3	R722	1:J3	7-K8	R850	1:K2	8-Q4	T83626	1:D2	10-D5
R380	1:F5	3-J4	R723	1:H3	7-M7	R853	1:M4	8-N3	TOPFIDA	1:A3	10-H3
R382	1:F5	3-K4	R725	1:J4	7-N7	R854	1:M4	8-N3	TOPFIDB	1:P8	10-J3
R384	2:E6	3-L3	%R726	1:J3	7-N6	R855	1:M2	8-B0	TOPHOLE	1:B9	10-B3
R386	2:E6	3-M2	R727	1:H3	7-N9	R859	1:N2	8-C1	TOPSLOT	1:P9	10-C3
R388	1:F6	3-M4	R728	1:H3	7-N8	R861	1:N2	8-D1	TP206	1:D5	2-H7
R390	1:E6	3-Q3	R742	1:H2	7-B4	R863	1:N3	8-E1	TP305	1:E4	3-E5
R392	1:E6	3-Q2	R743	1:H2	7-C5	R865	1:N4	8-E0	TP308	1:E5	3-G5
R394	1:E6	3-Q3	R744	1:G2	7-D4	R867	1:N3	8-E1	TP309	1:E8	3-R9
R396	1:E6	3-Q2	R746	1:H3	7-E4	R871	1:N3	8-G2	TP310	1:E8	3-R9
R405	1:H7	4-D4	R747	1:H3	7-E5	R872	1:M4	8-H1	TP313	1:F8	3-C7
R410	1:J7	4-C5	R748	1:J2	7-A1	R873	1:N3	8-G1	TP314	1:E8	3-F8
R415	1:J7	4-D5	R749	1:J2	7-B1	R874	1:N3	8-H0	TP401	1:G7	4-E6
R420	2:K8	4-G4	R750	1:H4	7-Q7	R875	1:N3	8-G0	TP402	1:F7	3-A9
R425	1:M7	4-G5	R752	1:G4	7-F5	R876	1:N3	8-H0	TP409	1:L9	4-P4
R430	1:M7	4-G5	R753	1:G4	7-F3	R877	1:M2	8-K2	TP410	1:M8	4-N6
R435	2:K8	4-H5	R754	1:G3	7-F3	R879	1:N2	8-L3	TP601	1:N5	6-K9
R440	2:N7	4-M6	R756	1:G3	7-G5	R330A	1:F9	3-L0	TP602	1:L6	6-R9
R445	2:N8	4-N5	R757	1:G4	7-G4	RV210	1:B7	2-F9	TP603	1:L5	6-J2
R450	2:M8	4-M4	R758	1:H3	7-H4	RV220	1:A4	2-M6	TP604	1:L5	6-M6
R455	2:N8	4-N3	R759	1:H3	7-J4	RV310	1:F7	3-B7	TP607	1:L4	6-J9
R460	1:J9	4-M8	R760	1:H3	7-K4	RV320	1:E7	3-G9	TP710	1:H4	7-H5
R502	1:K6	5-K9	R762	1:H3	7-K4	RV330	1:F7	3-G8	TP715	1:J2	7-C6
R505	1:K6	5-L8	R763	1:H4	7-L4	RV805	1:N4	8-F1	V5	nil	1-G5
R510	1:K6	5-L7	R765	1:H3	7-H2	S7	nil	1-G2			
R515	1:H6	5-J5	R766	1:G3	7-J3	SK205	1:B5	2-A5			
R520	1:J5	5-C1	R767	1:H3	7-K2	SK310	1:E7	3-R3			
R525	1:J5	5-D1	R769	1:H3	7-L3	SK420	1:H8	4-A4			
R530	1:J5	5-D0	R771	1:H4	7-M3	SK501	1:G6	5-D6			
R535	1:J5	5-E1	R772	1:G4	7-M2	SK502	1:G6	5-D5			
R540	1:K5	5-H2	R774	1:H4	7-M2	SK503	1:G6	5-D4			
R545	1:K5	5-J1	R775	1:H4	7-N2	SK504	1:G5	5-D3			
R550	1:K5	5-K2	R777	1:H4	7-R3	SK505	1:G5	5-D2			
R555	1:K5	5-K1	R784	1:G3	7-P1	SK513	1:H5	5-H3			
R560	1:K5	5-M0	R785	1:G3	7-Q1	SK522	1:H6	5-K5			
R609	1:L6	6-B8	R786	1:G2	7-Q1	SK531	1:K6	5-N6			
R613	1:L6	6-C8	R787	1:G2	7-R2	SK532	1:K5	5-N5			
R615	1:M5	6-F9	R790	1:G3	7-P0	SK533	1:K5	5-N4			
R617	1:M5	6-J8	R791	1:G3	7-Q0	SK534	1:K5	5-N3			
R619	1:M6	6-L8	R792	1:G3	7-Q0	SK535	1:K5	5-N2			
R621	1:M6	6-L8	R801	1:M2	8-D7	=SK710	1:K3	7-A7			
R625	1:N6	6-L7	R802	1:M2	8-D7	SK805	1:K3	8-Q9			
R629	1:M5	6-P6	R808	1:L2	8-B4	SK805	1:K3	8-Q7			
R633	1:M5	6-Q8	R809	1:L2	8-D5	SK805	1:K3	8-Q5			
R637	1:N5	6-K6	R810	1:L2	8-D6	SK805	1:K3	8-Q7			
R641	1:N5	6-L4	R811	1:L2	8-E6	SK805	1:K3	8-Q8			
R645	1:N5	6-L5	R812	1:L2	8-D5	SK805	1:K3	8-Q7			
R649	1:M5	6-M5	R813	1:L2	8-D4	SK805	1:K3	8-Q8			
R653	1:M5	6-Q4	R815	1:L2	8-F4	SK805	1:K3	8-Q6			
R657	1:M5	6-D1	R816	1:L2	8-F4	SK805	1:K3	8-Q8			
R661	1:M5	6-E3	R818	1:M2	8-F5	SK805	1:K3	8-Q6			
R665	1:M5	6-E2	R819	1:M2	8-F5	SK805	1:K3	8-Q6			
R669	1:M5	6-E2	R821	1:M4	8-B3	SK805	1:K3	8-Q9			
R673	1:M5	6-E0	R822	1:M4	8-E3	SK805	1:K3	8-Q6			
R677	1:M4	6-F4	R824	1:L4	8-L8	SK805	1:K3	8-Q9			
R681	1:L5	6-L2	R825	1:L4	8-L8	SK805	1:K3	8-Q7			
R685	1:L5	6-N2	R826	1:L4	8-L8	SK805	1:K3	8-Q8			
R689	1:L6	6-Q3	R827	1:L4	8-L7	SK810	1:M3	8-H5			
R693	1:L6	6-Q1	R828	1:L4	8-L7	SL201	2:D1	2-B9			
R696	1:M6	6-Q1	R829	1:L4	8-P9	SL202	2:D1	2-B8			
R701	1:K4	7-A9	R830	1:L3	8-P9	SL203	2:D2	2-B1			
R702	1:K4	7-C9	R831	1:L3	8-P9	SL204	2:D2	2-B1			
R703	1:J3	7-C8	R832	1:L3	8-P8	SL320	1:E4	3-E3			
=R705	1:K3	7-A7	R833	1:L3	8-P8	SL501	2:J5	5-F0			
R706	1:J3	7-B6	R835	1:L3	8-P8	SL810	1:M2	8-C7			
R708	1:H3	7-C7	R836	1:L3	8-P8	SW230	1:B8	2-B4			
R710	1:H2	7-E7	R837	1:L3	8-P7	T210	1:B2	2-C8			
R711	1:J2	7-B6	R840	1:L3	8-P7	T610	1:L5	6-N2			
R712	1:J3	7-D9	R841	1:L3	8-P7	T836-	1:D2	10-E5			