6 T854 PCB Information

Caution: **This equipment contains CMOS devices which are susceptible to damage from static charges. Refer to Section 1.2 in** Part A **for more information on anti-static procedures when handling these devices.**

This section provides the following information on the T854 transmitter:

- parts lists
- grid reference indexes
- mechanical assembly drawings
- PCB layouts
- test points and options connections drawings
- circuit diagrams.

Section	Title	IPN	Page
6.1	**Introduction**		**6.1.3**
6.2	**T854 Transmitter PCB**	**220-01397-01**	**6.2.1**

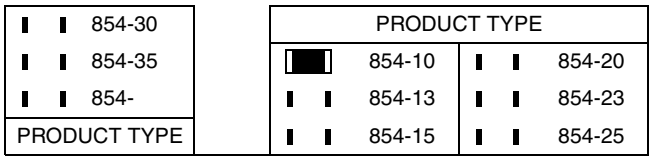
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6.1 Introduction

Product Type Identification

You can identify the transmitter type by checking the product code printed on a label on the rear of the chassis (product codes are explained in Section 1 of the front matter in this manual, and Figure 1.1 in Part A shows typical labels). You can further verify the product type by checking the placement of an SMD resistor in the table that is screen printed onto the top side of the PCB, similar to the example drawn below. In this example, the resistor indicates that the product was built as a T854-10-XXXX.



Note: The only function of this resistor is to indicate the product type. It has no effect on the circuitry or operation of the transmitter.

PCB Identification

All PCBs are identified by a unique 10 digit "internal part number" (IPN), e.g. 220-01390-02, which is screen printed onto the PCB (usually on the top side), as shown in the example below:



The last 2 digits of this number define the issue status, which starts at 00 and increments through 01, 02, 03, etc. as the PCB is updated. Some issue PCBs never reach full production status and are therefore not included in this manual. A letter following the 10 digit IPN has no relevance in identifying the PCB for service purposes.

Note: It is important that you identify which issue PCB you are working on so that you can refer to the appropriate set of PCB information.

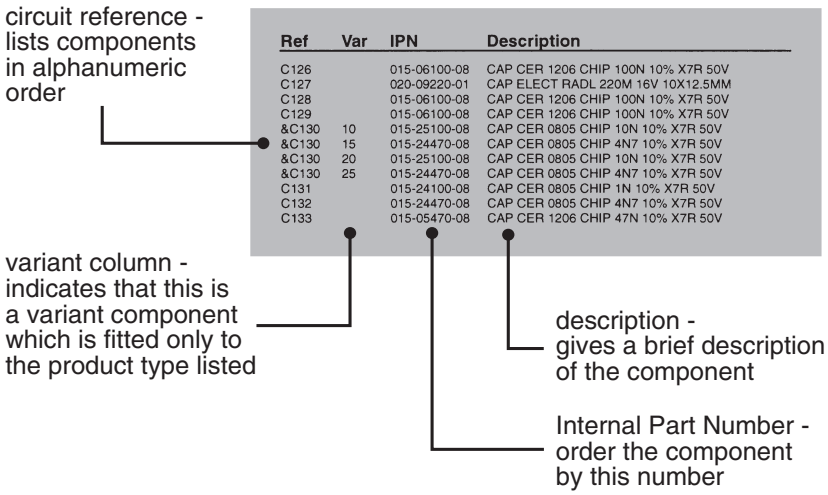
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Parts Lists

The 10 digit numbers (000-00000-00) in this Parts List are "internal part numbers" (IPNs). We can process your spare parts orders more efficiently and accurately if you quote the IPN and provide a brief description of the part.

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, as shown below:



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

Variant Components

A variant component is one that has the same circuit reference but different value or specification in different product types. Where two products share the same PCB, the term "variant" is also used to describe components unplaced in one product. Variant components have a character prefix, such as "&", "=" or "#", before the circuit reference (e.g. &R100).

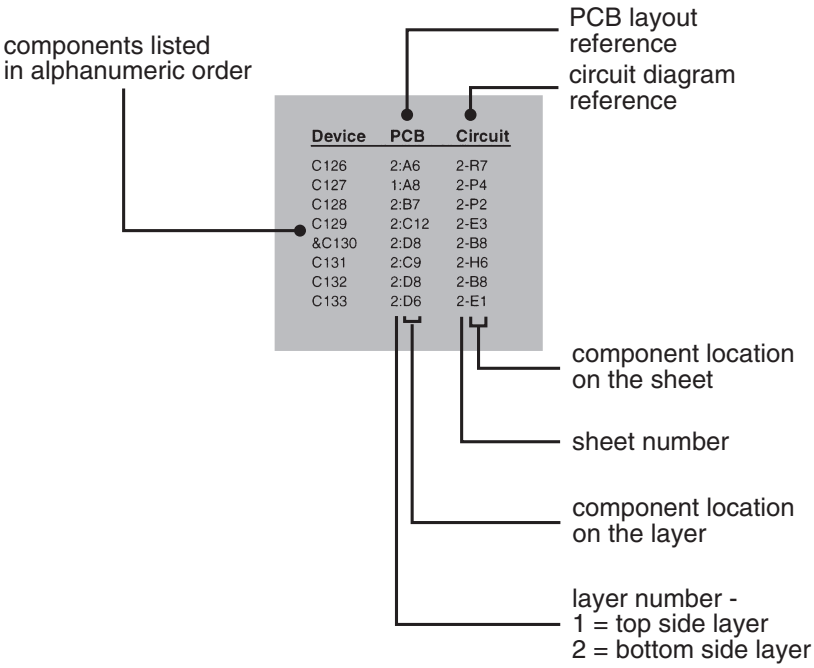
The table below explains the variant prefixes used in T800 SL2 products:

If the variant prefix is. . .	the component will. . .
&	change according to channel spacing
=	change according to frequency stability
#	change according to frequency range
%	change or be placed/unplaced for special applications
*	be unplaced in one product (where two products share the same PCB)

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Grid Reference Index

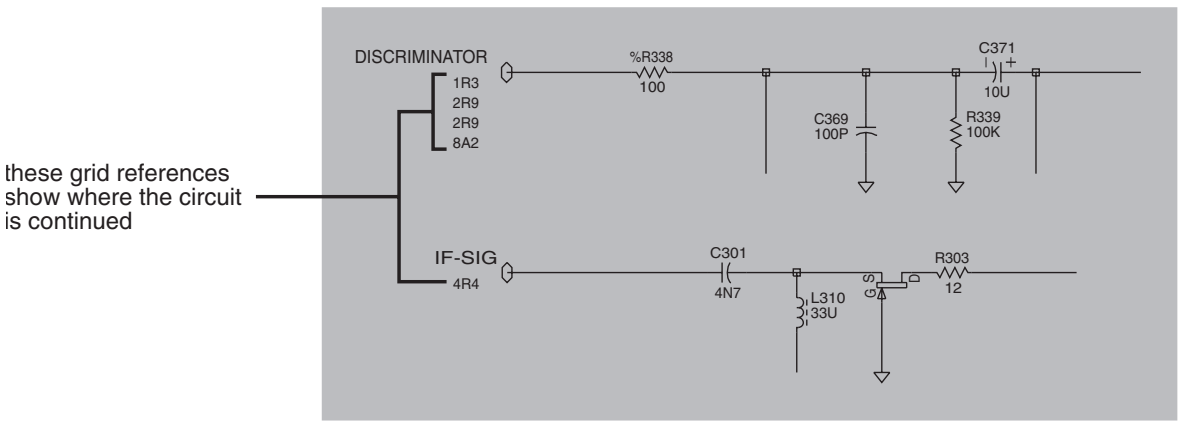
This section contains a component grid reference index to help you find components and labelled pads on the PCB layouts and circuit diagrams. This index lists the components and pads in alphanumeric order, along with the appropriate alphanumeric grid references, as shown below:



Using CAD Circuit Diagrams

Reading a CAD circuit diagram is similar to reading a road map, in that both have an alphanumeric border. The circuit diagrams in this manual use letters to represent the horizontal axis, and numbers for the vertical axis. These circuit diagram "grid references" are useful in following a circuit that is spread over two or more sheets.

When a line representing part of the circuitry is discontinued, a reference will be given at the end of the line to indicate where the rest of the circuitry is located, as shown below. The first digit refers to the sheet number and the last two characters refer to the location on that sheet of the continuation of the circuit (e.g. 1R3).



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6.2 T854 Transmitter PCB

This section contains the following information.

IPN	Section	Page
220-01397-01	Parts List	6.2.3
	Mechanical and Miscellaneous Parts	6.2.10
	Mechanical Assembly	6.2.11
	Grid Reference Index	6.2.13
	PCB Layout – Top Side	6.2.17
	PCB Layout – Bottom Side	6.2.18
	Test Points and Options Connections – Top Side	6.2.19
	Test Points and Options Connections – Bottom Side	6.2.20
	Transmitter Overview Diagram	6.2.21
	Audio Processor Circuit Diagram	6.2.22
	Exciter Circuit Diagram	6.2.23
	PA Circuit Diagram	6.2.24
	VCO Section Circuit Diagram	6.2.25
	Regulators Circuit Diagram	6.2.26
	Synthesiser Circuit Diagram	6.2.27
	Microcontroller Circuit Diagram	6.2.28
	Harmonic Filter Circuit Diagram	6.2.29

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T854 Parts List (IPN 220-01686-03)

How To Use This Parts List

The components listed in this parts list 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.

This parts list is correct at the time of publishing, but is subject to change without notification. An up to date parts list can be obtained from your local Customer Service Organisation

Ref	Var	IPN	Description
C100			015-23150-01CAP CER 0805 150P 5% NPO 50V
C101			016-08470-01CAP ELEC SMD 47UF 6*4 16V
C102			016-08470-01CAP ELEC SMD 47UF 6*4 16V
C103			015-24100-08CAP CER 0805 1N 10% X7R 50V
C201			016-07470-06CAP ELEC SMD BI-P 4U7 50V 20%
C202			016-07470-06CAP ELEC SMD BI-P 4U7 50V 20%
%C203A			015-25150-08CAP CER 0805 15N 10% X7R 50V
%C203B			015-25150-08CAP CER 0805 15N 10% X7R 50V
C207			014-07470-01CAP TANT SMD 4U7 25V 10% B
C209			015-25470-08CAP CER 0805 47N 10% X7R 50V
C210			015-26100-08CAP CER 0805 100N 10% X7R 50V
C211			015-26100-08CAP CER 0805 100N 10% X7R 50V
C213			014-08100-00CAP TANT SMD 10U 16V 20% 267C
C215			014-08220-01CAP TANT SMD 22U 10V 10% C
C217			015-24220-08CAP CER 0805 2N2 10% X7R 50V
C219			015-24100-08CAP CER 0805 1N 10% X7R 50V
C221		014-08220-01	CAP TANT SMD 22U 10V 10% C
C223		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C225		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C227		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C229		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C230		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C232		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C233		016-08470-01	CAP ELEC SMD 47UF 6*4 16V
C235		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C237		014-07100-02	CAP TANT SMD 1U0 16V 20% A
C239		016-07470-06	CAP ELEC SMD BI-P 4U7 50V 20%
C240		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C241		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C242		014-08100-00	CAP TANT SMD 10U 16V 20% 267C
C243		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C245		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C247		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C249		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C251		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C253		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C255		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C257		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C259		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C260		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C261		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C263		016-09100-05	CAP ELEC SMD 100U 25V 20%
%C265		016-07470-06	CAP ELEC SMD BI-P 4U7 50V 20%
C267		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
&C269	10	015-21150-01	CAP CER 0805 1P5+-0.25 NPO 50V
&C269	13	015-21150-01	CAP CER 0805 1P5+-0.25 NPO 50V
&C269	15	015-21470-01	CAP CER 0805 4P7+-0.25 NPO 50V
&C269	16	015-21470-01	CAP CER 0805 4P7+-0.25 NPO 50V
&C269	20	015-21150-01	CAP CER 0805 1P5+-0.25 NPO 50V
&C269	23	015-21150-01	CAP CER 0805 1P5+-0.25 NPO 50V
&C269	25	015-21470-01	CAP CER 0805 4P7+-0.25 NPO 50V
&C269	26	015-21470-01	CAP CER 0805 4P7+-0.25 NPO 50V
&C269	30	015-21150-01	CAP CER 0805 1P5+-0.25 NPO 50V
&C269	35	015-21470-01	CAP CER 0805 4P7+-0.25 NPO 50V
&C269	36	015-21470-01	CAP CER 0805 4P7+-0.25 NPO 50V
&C271	10	015-22470-01	CAP CER 0805 47P 5% NPO 50V
&C271	13	015-22470-01	CAP CER 0805 47P 5% NPO 50V
&C271	15	015-22470-01	CAP CER 0805 47P 5% NPO 50V
&C271	16	015-22560-01	CAP CER 0805 56P 5% NPO 50V
&C271	20	015-22470-01	CAP CER 0805 47P 5% NPO 50V
&C271	23	015-22470-01	CAP CER 0805 47P 5% NPO 50V
&C271	25	015-22470-01	CAP CER 0805 47P 5% NPO 50V
&C271	26	015-22560-01	CAP CER 0805 56P 5% NPO 50V
&C271	30	015-22470-01	CAP CER 0805 47P 5% NPO 50V
&C271	35	015-22470-01	CAP CER 0805 56P 5% NPO 50V
&C271	36	015-22560-01	CAP CER 0805 47P 5% NPO 50V
C273		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C275		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C277		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C279		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C281		015-25220-08	CAP CER 0805 22N 10% X7R 50V
C283		015-21470-05	CAP CER 0805 4P7+-0.1PF 200V
C285		015-21470-05	CAP CER 0805 4P7+-0.1PF 200V
C287		016-09100-05	CAP ELEC SMD 100U 25V 20%
&C289	10	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	13	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	15	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	16	015-26100-08	CAP CER 0805 100N 10% X7R 50V
&C289	20	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	23	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	25	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	26	015-26100-08	CAP CER 0805 100N 10% X7R 50V
&C289	30	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	35	015-25470-08	CAP CER 0805 47N 10% X7R 50V
&C289	36	015-26100-08	CAP CER 0805 100N 10% X7R 50V
C291		014-08220-01	CAP TANT SMD 22U 10V 10% C
C293		015-27100-10	CAP CER 0805 1M+80-20% Y5V 16V
%C294		015-22470-01	CAP CER 0805 47P 5% NPO 50V
%C295		013-06470-00	CAP SMD POLY 470N 63V 10%
C300		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C301		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C302		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C303		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C305		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C306		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C307		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C311		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C313		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C315		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C316		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C319		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C325		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C327		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C330A		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C330B		016-07100-01	CAP ELEC SMD 1M 6*4 20% 50V
C331		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C332		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C333		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C334		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C335		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C337		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C338		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C339		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C340A		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C340B		016-07100-01	CAP ELEC SMD 1M 6*4 20% 50V
C341		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C342		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C343		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C344		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C345		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C346		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C347		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C348		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C349		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C350A		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C350B		016-07100-01	CAP ELEC SMD 1M 6*4 20% 50V
C351		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C352		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C353		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C354		015-22220-01	CAP CER 0805 22P 5% NPO 50V
C355		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C356		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C361		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C362		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C364		015-22120-01	CAP CER 0805 12P 5% NPO 50V
C365	10	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	13	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	15	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	16	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	20	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	23	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	25	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	26	015-22330-01	CAP CER 0805 33P 5% NPO 50V
C365	30	015-22270-01	CAP CER 0805 27P 5% NPO 50V
C365	35	015-22270-01	CAP CER 0805 27P 5% NPO 50V
C365	36	015-22270-01	CAP CER 0805 27P 5% NPO 50V
C367		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C368		015-21470-05	CAP CER 0805 4P7+-0.1PF 200V
C370A		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C370B		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C370C		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C371		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C372		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C373		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C374		015-02330-06	CAP CER 1210 33P NPO 500V
C375		015-02330-06	CAP CER 1210 33P NPO 500V

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Ref	Var	IPN	Description
C376		015-22220-01	CAP CER 0805 22P 5% NPO 50V
C377		015-22270-01	CAP CER 0805 27P 5% NPO 50V
C378	10	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	13	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	15	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	16	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	20	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	23	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	25	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	26	015-22120-01	CAP CER 0805 12P 5% NPO 50V
C378	30	015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C378	35	015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C378	36	015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C380		015-22680-01	CAP CER 0805 68P 5% NPO 50V
C381		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C382		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C383		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C384		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C385		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C386		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C387		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C388		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C389		015-23150-01	CAP CER 0805 100N 10% X7R 50V
C391		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C392		015-23150-05	CAP 0805 150P 1% 200V GRM40
C393		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C405	10	015-22120-01	CAP 0805 12P 5% NPO 50V
C405	13	015-22120-01	CAP 0805 12P 5% NPO 50V
C405	15	015-22120-01	CAP 0805 12P 5% NPO 50V
C405	16	015-22120-01	CAP 0805 12P 5% NPO 50V
C405	20	015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C405	23	015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C405	25	015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C405	26	015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C405	30	015-21680-02	CAP 0805 6P8 0.1 NPO 50V
C405	35	015-21680-02	CAP 0805 6P8 0.1 NPO 50V
C405	36	015-21680-02	CAP 0805 6P8 0.1 NPO 50V
#C410	10	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	13	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	15	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	16	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	20	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	23	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	25	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	26	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C410	30	029-02240-02	CAP MICA 5MM CASE 24P 5%
#C410	35	029-02240-02	CAP MICA 5MM CASE 24P 5%
#C410	36	029-02240-02	CAP MICA 5MM CASE 24P 5%
C415	10	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	13	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	15	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	16	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	20	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	23	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	25	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	26	029-02330-02	CAP MICA 5MM CASE 33P 5%
C415	30	029-02240-02	CAP MICA 5MM CASE 24P 5%
C415	35	029-02240-02	CAP MICA 5MM CASE 24P 5%
C415	36	029-02240-02	CAP MICA 5MM CASE 24P 5%
C418		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C419		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C420		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C421		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C430		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C435		016-08470-01	CAP ELEC SMD 47UF 6*4 16V
C438		029-02680-02	CAP MICA 5MM CASE 68P 5%
#C439	10	015-04100-06	CAP CER 1210 1NF NPO200V GRM42
#C439	13	015-04100-06	CAP CER 1210 1NF NPO200V GRM42
#C439	15	015-04100-06	CAP CER 1210 1NF NPO200V GRM42
#C439	16	015-04100-06	CAP CER 1210 1NF NPO200V GRM42
#C439	20	not fitted	
#C439	23	not fitted	
#C439	25	not fitted	
#C439	26	not fitted	
#C439	30	not fitted	
#C439	35	not fitted	
#C439	36	not fitted	
#C440	10	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	13	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	15	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	16	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	20	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	23	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	25	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	26	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C440	30	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C440	35	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C440	36	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C445	10	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C445	13	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C445	15	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C445	16	029-02390-02	CAP MICA 5MM CASE 39P 5%
#C445	20	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C445	23	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C445	25	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C445	26	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C445	30	029-02330-02	CAP MICA 5MM CASE 33P 5%
#C445	35	029-02330-02	CAP MICA 5MM CASE 33P 5%

Ref	Var	IPN	Description
#C445	36	029-02330-02	CAP MICA 5MM CASE 33P 5%
C450		015-03100-02	CAP CER 1210 100P NPO5%200VHIQ
C455		016-07470-04	CAP ELEC SMD 4U7 50V 20%
#C460	10	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C460	13	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C460	15	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C460	16	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C460	20	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C460	23	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C460	25	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C460	26	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C460	30	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C460	35	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C460	36	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C465	10	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C465	13	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C465	15	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C465	16	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C465	20	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C465	23	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C465	25	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C465	26	029-02270-02	CAP MICA 5MM CASE 27P 5%
#C465	30	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C465	35	029-02220-02	CAP MICA 5MM CASE 22P 5%
#C465	36	029-02220-02	CAP MICA 5MM CASE 22P 5%
C470		015-03100-03	CAP CER 100P 5% 500VHIQ GRM111
#C480	10	not fitted	
#C480	13	not fitted	
#C480	15	not fitted	
#C480	16	not fitted	
#C480	20	015-01470-02	CAP CER 1210 4P7 NPO5% 200VHIQ
#C480	23	015-01470-02	CAP CER 1210 4P7 NPO5% 200VHIQ
#C480	25	015-01470-02	CAP CER 1210 4P7 NPO5% 200VHIQ
#C480	26	015-01470-02	CAP CER 1210 4P7 NPO5% 200VHIQ
#C480	30	015-01470-02	CAP CER 1210 4P7 NPO5% 200VHIQ
#C480	35	015-01470-02	CAP CER 1210 4P7 NPO5% 200VHIQ
#C480	36	015-01470-02	CAP CER 1210 4P7 NPO5% 200VHIQ
C481		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C485		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C490		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C493		015-03100-03	CAP CER 100P 5% 500VHIQ GRM111
C496		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C499		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C503		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C504		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C505		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C507		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C508		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C509		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C510		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C511		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C512		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C513		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C514		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C515		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C516		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C517		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C518		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C519		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C525		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C530		014-08220-01	CAP TANT SMD 22U 10V 10% C
C535		015-06100-08	CAP CER 1206 100N 10% X7R 50V
C536		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C537		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C605		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C607		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C608		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C610A		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C610B		014-09100-00	CAP TANT SMD 100U 16V 20% E
C611A		014-09100-00	CAP TANT SMD 100U 16V 20% E
C611B		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C623		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C625		020-09470-07	CAP ELEC RDL 470M 16V 20%
C626		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C628		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C630		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C631A		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C634		014-08100-00	CAP TANT SMD 10U 16V 20% 267C
C636		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C638		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C640		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C655		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C660		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C665		014-08100-03	CAP TANT SMD 10U 35V 20% D
C670		014-07330-10	CAP TANT SMD 3U3 35V 10% C
C673		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C677		014-07100-02	CAP TANT SMD 1U0 16V 20% A
C681		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C684		014-08100-00	CAP TANT SMD 10U 16V 20% 267C
C687		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C690		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C693		014-08100-00	CAP TANT SMD 10U 16V 20% 267C
C700		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C703		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C706		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C708		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C709		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C710		015-25100-08	CAP CER 0805 10N 10% X7R 50V

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Ref	Var	IPN	Description
C711		015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C712		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C714		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C719		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C720		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C722		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C724		014-08220-01	CAP TANT SMD 22U 10V 10% C
C725		014-08220-01	CAP TANT SMD 22U 10V 10% C
C726		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C727		015-23100-01	CAP CER 0805 100P 5% NPO 50V
C729		015-23100-01	CAP CER 0805 100P 5% NPO 50V
%C733		015-23470-08	CAP CER 0805 470P 10% X7R 50V
C735		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C736		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C740A		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C740B		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C741A		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C741B		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C742A		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C742B		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C743		015-22470-01	CAP CER 0805 47P 5% NPO 50V
C745		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C750		014-08100-03	CAP TANT SMD 10U 35V 20% D
C757		015-25220-08	CAP CER 0805 22N 10% X7R 50V
C759		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C761		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C762		014-08220-01	CAP TANT SMD 22U 10V 10% C
C764		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C765		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C767		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C769		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C770		014-08220-01	CAP TANT SMD 22U 10V 10% C
C772		014-08220-01	CAP TANT SMD 22U 10V 10% C
C774		013-06100-10	CAP SMD PPS 100N 50VDC 10%
C776		015-24470-08	CAP CER 0805 4N7 10% X7R 50V
C782		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C784		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C785		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C786		015-26100-08	CAP CER 0805 100N 10% X7R 50V
C788		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C790		015-21820-02	CAP 0805 8P2 0.1 NPO 50V
C792		015-23150-01	CAP CER 0805 150P 5% NPO 50V
C810		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C812		015-23100-01	CAP CER 0805 100P 5% NPO 50V
C813		015-24100-08	CAP CER 0805 1N 10% X7R 50V
C822		014-07470-01	CAP TANT SMD 4U7 25V 10% B
C823		015-25220-08	CAP CER 0805 22N 10% X7R 50V
C824		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C826		015-23220-01	CAP CER 0805 220P 5% NPO 50V
C827		015-22330-01	CAP CER 0805 33P 5% NPO 50V
C828		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C830		015-25470-08	CAP CER 0805 47N 10% X7R 50V
C838		014-09100-00	CAP TANT SMD 100U 16V 20% E
C841		014-09100-00	CAP TANT SMD 100U 16V 20% E
C844		015-25100-08	CAP CER 0805 10N 10% X7R 50V
C880		015-23150-01	CAP CER 0805 150P 5% NPO 50V
#C900	10	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C900	13	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C900	15	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C900	16	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C900	20	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C900	23	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C900	25	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C900	26	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C900	30	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C900	35	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C900	36	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	10	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	13	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	15	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	16	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	20	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	23	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	25	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	26	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	30	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	35	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C910	36	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C920	10	015-01470-06	CAP CER 1210 4P7 NPO 500VGRM42
#C920	13	015-01470-06	CAP CER 1210 4P7 NPO 500VGRM42
#C920	15	015-01470-06	CAP CER 1210 4P7 NPO 500VGRM42
#C920	16	015-01470-06	CAP CER 1210 4P7 NPO 500VGRM42
#C920	20	015-01330-06	CAP CER 1210 3P3 NPO500VGRM42
#C920	23	015-01330-06	CAP CER 1210 3P3 NPO500VGRM42
#C920	25	015-01330-06	CAP CER 1210 3P3 NPO500VGRM42
#C920	26	015-01330-06	CAP CER 1210 3P3 NPO500VGRM42
#C920	30	015-01330-06	CAP CER 1210 3P3 NPO500VGRM42
#C920	35	015-01330-06	CAP CER 1210 3P3 NPO500VGRM42
#C920	36	015-01330-06	CAP CER 1210 3P3 NPO500VGRM42
#C940	10	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C940	13	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C940	15	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C940	16	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C940	20	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C940	23	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C940	25	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C940	26	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C940	30	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42

Ref	Var	IPN	Description
#C940	35	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C940	36	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C950	10	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C950	13	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C950	15	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C950	16	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C950	20	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C950	23	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C950	25	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C950	26	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C950	30	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C950	35	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C950	36	015-01560-06	CAP CER 1210 5P6 NPO 500VGRM42
#C970	10	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	13	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	15	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	16	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	20	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	23	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	25	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	26	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	30	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	35	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C970	36	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C980	10	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C980	13	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C980	15	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C980	16	015-01470-06	CAP CER 1210 4P7 NPO500VGRM42
#C980	20	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C980	23	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C980	25	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C980	26	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C980	30	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C980	35	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C980	36	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C990	10	015-01330-06	CAP CER 1210 3P3 NPO 500VGRM42
#C990	13	015-01330-06	CAP CER 1210 3P3 NPO 500VGRM42
#C990	15	015-01330-06	CAP CER 1210 3P3 NPO 500VGRM42
#C990	16	015-01330-06	CAP CER 1210 3P3 NPO 500VGRM42
#C990	20	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C990	23	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C990	25	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C990	26	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C990	30	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C990	35	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#C990	36	015-01390-06	CAP CER 1210 3P9 NPO 500VGRM42
#CV475	10	028-02160-00	CAP TRIM VERT 1.9P~16.1P
#CV475	13	028-02160-00	CAP TRIM VERT 1.9P~16.1P
#CV475	15	028-02160-00	CAP TRIM VERT 1.9P~16.1P
#CV475	16	028-02160-00	CAP TRIM VERT 1.9P~16.1P
#CV475	20	028-02100-11	CAP TRIM VERT 1.6P~11.4P
#CV475	23	028-02100-11	CAP TRIM VERT 1.6P~11.4P
#CV475	25	028-02100-11	CAP TRIM VERT 1.6P~11.4P
#CV475	26	028-02100-11	CAP TRIM VERT 1.6P~11.4P
#CV475	30	028-02100-11	CAP TRIM VERT 1.6P~11.4P
#CV475	35	028-02100-11	CAP TRIM VERT 1.6P~11.4P
#CV475	36	028-02100-11	CAP TRIM VERT 1.6P~11.4P
D111		001-10015-50	DIODE SMD 1.5SMC22AT3 TVS/ZEN
D211		008-00014-80	LED 3MM GRN W/WIRE
D212		008-00014-79	LED 3MM RED W/WIRE
D220		001-10000-99	DIODE SMD BAV99 D-SW SOT23
D230		001-10010-40	DIODE SMD BZG03-C33 33V ZEN
D240		001-10000-56	DIODE SMD BAW56 D-SW SOT23
D245		001-10000-56	DIODE SMD BAW56 D-SW SOT23
D250		001-10000-56	DIODE SMD BAW56 D-SW SOT23
D260		001-10000-56	DIODE SMD BAW56 D-SW SOT23
D270		001-10000-99	DIODE SMD BAV99 D-SW SOT23
D340		001-10000-18	DIODE SMD BAT18 S-SW SOT23
D360		001-10000-18	DIODE SMD BAT18 S-SW SOT23
D380		001-10000-18	DIODE SMD BAT18 S-SW SOT23
D381		001-10084-51	DIODE SMD BZX84C5V1 ZEN SOT23
D420		001-10066-00	DIODE HSMS2815 SCH
D440		001-10066-00	DIODE HSMS2815 SCH
D510		001-10000-70	DIODE SMD BAV70 D-SW SOT23
D610		001-10000-99	DIODE SMD BAV99 D-SW SOT23
D620		001-10000-70	DIODE SMD BAV70 D-SW SOT23
D630		001-10000-70	DIODE SMD BAV70 D-SW SOT23
D640		001-10000-70	DIODE SMD BAV70 D-SW SOT23
D645		001-10010-40	DIODE SMD BZG03-C33 33V ZEN
D710		001-10000-99	DIODE SMD BAV99 D-SW SOT23
D720		001-10000-99	DIODE SMD BAV99 D-SW SOT23
D730		001-10165-00	DIODE BAT165 SCH SOD323
D732		001-10165-00	DIODE BAT165 SCH SOD323
D810		001-10165-00	DIODE BAT165 SCH SOD323
D635A		001-10165-00	DIODE BAT165 SCH SOD323
IC210		002-10003-24	IC SMD 324 4X 0-AMP SO14
IC220		002-10126-70	IC SMD DS1267S10K 2XDIG POT
IC230		002-10003-24	IC SMD 324 4X 0-AMP SO14
IC240		002-10040-53	IC SMD 4053B BREAK B4 MAKE
IC250		002-10020-50	IC SMD 4N25A OPTO-C
IC260		002-10003-24	IC SMD 324 4X 0-AMP SO14
IC330		002-10003-58	IC SMD LM358 DUAL 0-AMP
IC340		002-10003-58	IC SMD LM358 DUAL 0-AMP
IC350		002-10003-58	IC SMD LM358 DUAL 0-AMP
IC370		002-12951-00	IC SMD LP2951CM ADJ VLTGE REG

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Ref	Var	IPN	Description
IC610		002-10078-05	IC SMD 78L05 5V REG
IC630		002-12523-17	IC LM317L REG TO252 0.5A
IC640		002-10003-58	IC SMD LM358 DUAL 0-AMP
IC650		002-10012-32	IC DS1232LPS-2 LO-P RESET&WDOG
0		539-00010-50	TCXO 12.8MHZ +-1PPM -30 +70C
IC710		002-74900-04	IC SMD 74HC04D 6X INV BUFFD
IC720		002-74910-04	IC SMD 74HCU04 6X INV
IC730		002-10045-20	IC SMD 74HC4520T 2XCTR 4BIT
IC740		002-14519-30	IC MC145193F SMD SYNTH
IC750		002-10330-78	IC MC33078D 2X AMP LO-N
IC810		002-08951-20	IC AT89C51 PLCC44 MIC 12MHZ
IC820		002-12416-00	IC SMD AT24C16N-10SC EEPROM
IC830		002-10003-24	IC SMD 324 4X 0-AMP SO14
L302		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L304		052-57320-30	COIL A/W SMD 3T/2MM .57MM
L305		059-16330-05	IND SMD 0805CS 330NH 5%
L320		056-10330-02	IND SMD 1210 330NH 10% SIMID02
L326		059-16270-10	IND SMD 1008CS 270NH 5%
L327		065-10004-20	BEAD FER SMD CBD 4.6/3/3-4S2
L328		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L333		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L334		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L405		052-08125-15	COIL A/W 1.5T/2.5MM HOR 0.8MM
L410		052-08160-15	COIL A/W 1.5T/6.0MM HOR 0.8MM
L415		065-10004-20	BEAD FER SMD CBD 4.6/3/3-4S2
L420		065-10009-20	BEAD FER SMD BDS3/3/8.9-4S2
L425		052-08340-50	COIL A/W SMD 5T/4.0MM 0.8MM
L430		065-10004-20	BEAD FER SMD CBD 4.6/3/3-4S2
L435		052-08160-15	COIL A/W 1.5T/6.0MM HOR 0.8MM
L445		052-08130-35	COIL A/W 3.5T/3.0MM HOR 0.8MM
L450		065-10004-20	BEAD FER SMD CBD 4.6/3/3-4S2
L460		065-10004-20	BEAD FER SMD CBD 4.6/3/3-4S2
L465		051-00005-53	COIL TAIT#553 A/W 10MM LNK
L475		051-00005-56	COIL#556 13MM FRMD CU STIRP
L480		056-10330-02	IND SMD 1210 330NH 10% SIMID02
L481		056-10330-02	IND SMD 1210 330NH 10% SIMID02
L485		056-10330-02	IND SMD 1210 330NH 10% SIMID02
L520		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L521		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L522		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L601		057-10120-03	IND 0805 120E@100M .2 EMI SUPR
L750		052-08125-15	COIL A/W 1.5T/2.5MM HOR 0.8MM
#L910	10	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	13	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	15	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	16	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	20	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	23	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	25	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	26	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L910	30	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L910	35	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L910	36	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L920	10	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	13	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	15	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	16	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	20	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	23	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	25	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	26	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L920	30	052-08145-15	COIL A/W 1.5T/4.5MM HOR 0.8MM
#L920	35	052-08145-15	COIL A/W 1.5T/4.5MM HOR 0.8MM
#L920	36	052-08145-15	COIL A/W 1.5T/4.5MM HOR 0.8MM
#L930	10	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	13	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	15	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	16	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	20	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	23	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	25	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	26	052-08155-15	COIL A/W 1.5T/5.5MM HOR 0.8MM
#L930	30	052-08145-15	COIL A/W 1.5T/4.5MM HOR 0.8MM
#L930	35	052-08145-15	COIL A/W 1.5T/4.5MM HOR 0.8MM
#L930	36	052-08145-15	COIL A/W 1.5T/4.5MM HOR 0.8MM
#L940	10	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	13	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	15	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	16	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	20	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	23	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	25	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	26	052-08150-15	COIL A/W 1.5T/5.0MM HOR 0.8MM
#L940	30	052-08140-15	COIL A/W 1.5T/4.0MM HOR 0.8MM
#L940	35	052-08140-15	COIL A/W 1.5T/4.0MM HOR 0.8MM
#L940	36	052-08140-15	COIL A/W 1.5T/4.0MM HOR 0.8MM
P100		240-02100-06	SKT COAX N TYPE PNL MTG OPNTRM
PL100		070-01001-00	DRNG 15WAY CMPLT T800
PL201		240-00021-03	HDR 2X7W SMD
PL202		240-00021-03	HDR 2X7W SMD
Q100		000-10029-55	XSTR SMD MJD2955 PNP 20W
Q101		000-10008-17	XSTR SMD BC817-25 NPN SOT23
Q102		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q210		000-10008-47	XSTR SMD BC847B NPN SOT23
Q211		006-13000-00	SID P0300 ITU/UL/IEC DO214

Ref	Var	IPN	Description
Q220		000-10008-17	XSTR SMD BC817-25 NPN SOT23
Q230		000-10008-47	XSTR SMD BC847B NPN SOT23
Q240		000-10008-47	XSTR SMD BC847B NPN SOT23
Q250		000-10008-17	XSTR SMD BC817-25 NPN SOT23
Q260		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q270		000-10004-10	XSTR SMD MJD41C NPN SW DPAK
Q320		000-10008-47	XSTR SMD BC847B NPN SOT23
Q325		000-10008-47	XSTR SMD BC847B NPN SOT23
Q326		000-10008-47	XSTR SMD BC847B NPN SOT23
Q330		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q331		000-10085-70	XSTR BC856 PNP DUAL SOT363
Q332		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q333		000-00011-91	XSTR BD139 NPN AF PWR TO126
Q334		000-10008-47	XSTR SMD BC847B NPN SOT23
Q335		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q336		000-10055-03	XSTR PD55003 3W 12.5V SO10RF
Q337		000-10059-10	XSTR SMD BFG591 7G NPN SOT223
Q340		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q341		000-10008-47	XSTR SMD BC847B NPN SOT23
Q345		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q410		000-00022-75	XSTR SD1433 NPN SMTG 10W
Q420		000-00022-80	XSTR SD1488 NPN 6LFL 40W
Q505		000-10008-47	XSTR SMD BC847B NPN SOT23
Q510		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q520		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q530		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q540		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q550		000-10008-47	XSTR SMD BC847B NPN SOT23
Q610		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q620		000-00033-12	XSTR BD242 TO220 PNP ISO
Q630		000-10003-00	XSTR SMD BSR30 PNP AF SOT89
Q660		000-10008-17	XSTR SMD BC817-25 NPN SOT23
Q670		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q710		000-10008-47	XSTR SMD BC847B NPN SOT23
Q720		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q730		000-10008-47	XSTR SMD BC847B NPN SOT23
Q740		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q750		000-10008-07	XSTR SMD BC807 PNP SOT23 AF
Q760		000-10008-47	XSTR SMD BC847B NPN SOT23
Q770		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q775		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q780		000-10008-47	XSTR SMD BC847B NPN SOT23
Q785		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q790		000-10003-12	XSTR SMD BFR31 N JFET SOT23
Q795		000-10009-30	XSTR SMD BFR93A NPN SOT23
Q810		000-10008-47	XSTR SMD BC847B NPN SOT23
Q820		000-10008-17	XSTR SMD BC817-25 NPN SOT23
Q830		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q840		000-10008-57	XSTR SMD BC857 PNP SOT23 SS
Q850		000-10008-47	XSTR SMD BC847B NPN SOT23
Q860		000-10008-47	XSTR SMD BC847B NPN SOT23
R100		036-01100-10	RES 2512 1E 5% 1W
R101		036-15120-00	RES M/F SMD 0805 12K 5%
R102		036-14390-10	RES M/F SMD 0805 3K9 1%
R103		036-15120-00	RES M/F SMD 0805 12K 5%
R160		036-12100-10	RES M/F SMD 0805 10E 1%
R202		036-14100-10	RES M/F SMD 0805 1K 1%
%R203B		036-10000-00	RES M/F SMD 0805 0E 0.125W
%R203E		036-13560-10	RES M/F SMD 0805 560E 1%
R204		036-14220-00	RES M/F SMD 0805 2K2 5%
R205		036-13220-10	RES M/F SMD 0805 220E 1%
R206		036-14100-10	RES M/F SMD 0805 1K 1%
R207		036-14390-10	RES M/F SMD 0805 3K9 1%
R208		036-13560-10	RES M/F SMD 0805 560E 1%
R209		036-15100-10	RES M/F SMD 0805 10K 1%
R210		036-14220-00	RES M/F SMD 0805 2K2 5%
%R211		036-10000-00	RES M/F SMD 0805 0E 0.125W
R212		036-16100-10	RES M/F SMD 0805 100K 1%
R213		036-15100-10	RES M/F SMD 0805 10K 1%
R214		036-14820-10	RES M/F SMD 0805 8K2 1%
R215		036-16100-10	RES M/F SMD 0805 100K 1%
R216		036-16100-10	RES M/F SMD 0805 100K 1%
R217		036-14100-10	RES M/F SMD 0805 1K 1%
R218		036-16150-00	RES M/F SMD 0805 150K 5%
R219		036-14220-00	RES M/F SMD 0805 2K2 5%
%R220		036-10000-00	RES M/F SMD 0805 0E 0.125W
R221		036-14150-10	RES M/F SMD 0805 1K5 1%
R223		036-17100-10	RES M/F SMD 0805 1M 1%
R224		036-14680-10	RES M/F SMD 0805 6K8 1%
R225		036-17100-10	RES M/F SMD 0805 1M 1%
R226		036-15100-10	RES M/F SMD 0805 10K 1%
R227		036-14220-00	RES M/F SMD 0805 2K2 5%
R229		036-16470-00	RES M/F SMD 0805 470K 5%
R230		036-16100-10	RES M/F SMD 0805 100K 1%
R231		036-15100-10	RES M/F SMD 0805 10K 1%
R232		036-16330-00	RES M/F SMD 0805 330K 5%
R233		036-16100-10	RES M/F SMD 0805 100K 1%
R235		036-14470-10	RES M/F SMD 0805 4K7 1%
R236		036-10000-00	RES M/F SMD 0805 0E 0.125W
R237		036-15470-10	RES M/F SMD 0805 47K 1%
R238		036-15470-10	RES M/F SMD 0805 47K 1%
R239		036-14150-10	RES M/F SMD 0805 1K5 1%
R240		036-10000-00	RES M/F SMD 0805 0E 0.125W
R241		036-14470-10	RES M/F SMD 0805 4K7 1%
R242		036-14220-00	RES M/F SMD 0805 2K2 5%
R243		036-10000-00	RES M/F SMD 0805 0E 0.125W
R244		036-15100-10	RES M/F SMD 0805 10K 1%

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Ref	Var	IPN	Description
R245		036-16100-10	RES M/F SMD 0805 100K 1%
R247		036-15100-10	RES M/F SMD 0805 10K 1%
R248		036-16100-10	RES M/F SMD 0805 100K 1%
R249		036-16100-10	RES M/F SMD 0805 100K 1%
R251		036-16100-10	RES M/F SMD 0805 100K 1%
R253		036-16100-10	RES M/F SMD 0805 100K 1%
R254		036-16100-10	RES M/F SMD 0805 100K 1%
R255		036-15100-10	RES M/F SMD 0805 10K 1%
R256		036-15560-10	RES M/F SMD 0805 56K 1%
R257		036-16560-00	RES M/F SMD 0805 560K 5%
R258		036-16150-00	RES M/F SMD 0805 150K 5%
R259		036-15220-00	RES M/F SMD 0805 22K 5%
R260		036-15470-10	RES M/F SMD 0805 47K 1%
R262		036-15470-10	RES M/F SMD 0805 47K 1%
R263		036-14470-10	RES M/F SMD 0805 4K7 1%
&R264	10	036-15220-00	RES M/F SMD 0805 22K 5%
&R264	13	036-15220-00	RES M/F SMD 0805 22K 5%
&R264	15	036-15270-10	RES M/F SMD 0805 27K 1%
&R264	16	036-15180-10	RES M/F SMD 0805 18K 1%
&R264	20	036-15220-00	RES M/F SMD 0805 22K 5%
&R264	23	036-15220-00	RES M/F SMD 0805 22K 5%
&R264	25	036-15270-10	RES M/F SMD 0805 27K 1%
&R264	26	036-15180-10	RES M/F SMD 0805 18K 1%
&R264	30	036-15220-00	RES M/F SMD 0805 22K 5%
&R264	35	036-15270-10	RES M/F SMD 0805 27K 1%
&R264	36	036-15180-10	RES M/F SMD 0805 18K 1%
&R265	10	036-15150-10	RES M/F SMD 0805 15K 1%
&R265	13	036-15150-10	RES M/F SMD 0805 15K 1%
&R265	15	036-15180-10	RES M/F SMD 0805 18K 1%
&R265	16	036-15150-10	RES M/F SMD 0805 15K 1%
&R265	20	036-15150-10	RES M/F SMD 0805 15K 1%
&R265	23	036-15150-10	RES M/F SMD 0805 15K 1%
&R265	25	036-15180-10	RES M/F SMD 0805 18K 1%
&R265	26	036-15150-10	RES M/F SMD 0805 15K 1%
&R265	30	036-15150-10	RES M/F SMD 0805 15K 1%
&R265	35	036-15180-10	RES M/F SMD 0805 18K 1%
&R265	36	036-15150-10	RES M/F SMD 0805 15K 1%
&R266	10	036-15470-10	RES M/F SMD 0805 47K 1%
&R266	13	036-15470-10	RES M/F SMD 0805 47K 1%
&R266	15	036-15560-10	RES M/F SMD 0805 56K 1%
&R266	16	036-15470-10	RES M/F SMD 0805 47K 1%
&R266	20	036-15470-10	RES M/F SMD 0805 47K 1%
&R266	23	036-15470-10	RES M/F SMD 0805 47K 1%
&R266	25	036-15560-10	RES M/F SMD 0805 56K 1%
&R266	26	036-15470-10	RES M/F SMD 0805 47K 1%
&R266	30	036-15470-10	RES M/F SMD 0805 47K 1%
&R266	35	036-15560-10	RES M/F SMD 0805 56K 1%
&R266	36	036-15470-10	RES M/F SMD 0805 47K 1%
R267		036-14220-00	RES M/F SMD 0805 2K2 5%
R268		036-13100-10	RES M/F SMD 0805 100E 1%
R269		036-15100-10	RES M/F SMD 0805 10K 1%
R270		036-14120-00	RES M/F SMD 0805 1K2 5%
R271		036-17100-10	RES M/F SMD 0805 1M 1%
R272		036-13560-10	RES M/F SMD 0805 560E 1%
R273		036-15120-00	RES M/F SMD 0805 12K 5%
R274		036-15150-10	RES M/F SMD 0805 15K 1%
R275		036-14270-10	RES M/F SMD 0805 2K7 1%
R276		036-10000-00	RES M/F SMD 0805 0E 0.125W
R277		036-16100-10	RES M/F SMD 0805 100K 1%
%R278		036-16100-10	RES M/F SMD 0805 100K 1%
R279		036-17100-10	RES M/F SMD 0805 1M 1%
R280		036-15100-10	RES M/F SMD 0805 10K 1%
R282		036-15560-10	RES M/F SMD 0805 56K 1%
R283		036-15560-10	RES M/F SMD 0805 56K 1%
R284		036-17100-10	RES M/F SMD 0805 1M 1%
R285		036-10000-00	RES M/F SMD 0805 0E 0.125W
R286		036-14220-00	RES M/F SMD 0805 2K2 5%
R287		036-15100-10	RES M/F SMD 0805 10K 1%
R288		036-15180-10	RES M/F SMD 0805 18K 1%
R289		036-16100-10	RES M/F SMD 0805 100K 1%
&R290	10	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	13	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	15	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	16	036-13680-10	RES M/F SMD 0805 680E 1%
&R290	20	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	23	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	25	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	26	036-13680-10	RES M/F SMD 0805 680E 1%
&R290	30	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	35	036-13560-10	RES M/F SMD 0805 560E 1%
&R290	36	036-13680-10	RES M/F SMD 0805 680E 1%
%R291		036-10000-00	RES M/F SMD 0805 0E 0.125W
R292		036-14470-10	RES M/F SMD 0805 4K7 1%
R293		036-15470-10	RES M/F SMD 0805 47K 1%
R294		036-14470-10	RES M/F SMD 0805 4K7 1%
R295		036-14270-10	RES M/F SMD 0805 2K7 1%
R296		036-14100-10	RES M/F SMD 0805 1K 1%
R297		036-14560-00	RES M/F SMD 0805 5K6 5%
%R298		036-16100-10	RES M/F SMD 0805 100K 1%
R299		036-14270-10	RES M/F SMD 0805 2K7 1%
R300		036-14100-10	RES M/F SMD 0805 1K 1%
R301		036-15100-10	RES M/F SMD 0805 10K 1%
R302		036-14100-10	RES M/F SMD 0805 1K 1%
R303		036-15100-10	RES M/F SMD 0805 10K 1%
R304		036-15470-10	RES M/F SMD 0805 47K 1%
R305		036-15330-10	RES M/F SMD 0805 33K 1%
R306		036-16100-10	RES M/F SMD 0805 100K 1%
R307		036-15100-10	RES M/F SMD 0805 10K 1%

Ref	Var	IPN	Description
R309		036-16220-00	RES M/F SMD 0805 220K 5%
R311		036-16100-10	RES M/F SMD 0805 100K 1%
R312		036-15150-10	RES M/F SMD 0805 15K 1%
R313		036-16470-00	RES M/F SMD 0805 470K 5%
R316		036-16270-00	RES M/F SMD 0805 270K 5%
R319		036-15470-10	RES M/F SMD 0805 47K 1%
R320		036-14470-10	RES M/F SMD 0805 4K7 1%
R323		036-13220-10	RES M/F SMD 0805 220E 1%
R324		036-13100-10	RES M/F SMD 0805 100E 1%
R325		036-14100-10	RES M/F SMD 0805 1K 1%
R326		036-11330-00	RES M/F SMD 0805 3E3 5%
R327		036-12220-00	RES M/F SMD 0805 22E 5%
R328		036-12820-00	RES M/F SMD 0805 82E 5%
R329		036-13470-00	RES M/F SMD 0805 470E 5%
R330		036-13220-10	RES M/F SMD 0805 220E 1%
R331		036-12180-00	RES M/F SMD 0805 18E 5%
R332		036-13330-00	RES M/F SMD 0805 330E 5%
R334		036-12680-00	RES M/F SMD 0805 68E 5%
R336		036-10000-00	RES M/F SMD 0805 0E 0.125W
R337		036-12100-10	RES M/F SMD 0805 10E 1%
R338		036-13120-00	RES M/F SMD 0805 120E 5%
R339		036-14100-10	RES M/F SMD 0805 1K 1%
R340		036-14560-00	RES M/F SMD 0805 5K6 5%
R341		036-16220-00	RES M/F SMD 0805 220K 5%
R342		036-12470-00	RES M/F SMD 0805 47E 5%
R343		036-15100-10	RES M/F SMD 0805 10K 1%
R344		036-14150-10	RES M/F SMD 0805 1K5 1%
R345		036-14680-10	RES M/F SMD 0805 6K8 1%
R346		036-14330-10	RES M/F SMD 0805 3K3 1%
R347		036-16150-00	RES M/F SMD 0805 150K 5%
R348		036-12100-10	RES M/F SMD 0805 10E 1%
R349		036-14330-10	RES M/F SMD 0805 3K3 1%
R350		036-13220-10	RES M/F SMD 0805 220E 1%
R351		036-16100-10	RES M/F SMD 0805 100K 1%
R352		036-12680-00	RES M/F SMD 0805 68E 5%
R353		036-15100-10	RES M/F SMD 0805 10K 1%
R355		036-14150-10	RES M/F SMD 0805 1K5 1%
R356		036-16100-10	RES M/F SMD 0805 100K 1%
R357		036-15470-10	RES M/F SMD 0805 47K 1%
R359		036-15470-10	RES M/F SMD 0805 47K 1%
R360		036-14150-10	RES M/F SMD 0805 1K5 1%
R361		036-12680-00	RES M/F SMD 0805 68E 5%
R362		036-16180-00	RES M/F SMD 0805 180K 5%
R363		036-15470-10	RES M/F SMD 0805 47K 1%
R364		036-15470-10	RES M/F SMD 0805 47K 1%
R365		036-15560-10	RES M/F SMD 0805 56K 1%
R366		036-15100-10	RES M/F SMD 0805 10K 1%
R367		036-15100-10	RES M/F SMD 0805 10K 1%
R368		036-15220-00	RES M/F SMD 0805 22K 5%
R369		036-16100-10	RES M/F SMD 0805 100K 1%
R370		036-12100-10	RES M/F SMD 0805 10E 1%
R371		036-16100-10	RES M/F SMD 0805 100K 1%
R372		036-14680-10	RES M/F SMD 0805 6K8 1%
R373		036-13820-00	RES M/F SMD 0805 820E 5%
R374		036-14120-00	RES M/F SMD 0805 1K2 5%
R376		036-14150-10	RES M/F SMD 0805 1K5 1%
R378		036-00220-10	RES 1206 0E22 1% 0.25W
R379		036-13100-10	RES M/F SMD 0805 100E 1%
R380		036-11180-10	RES M/F SMD 0805 1E8 1%
R381		036-14150-10	RES M/F SMD 0805 1K5 1%
R382		036-12470-00	RES M/F SMD 0805 47E 5%
R383		036-15150-10	RES M/F SMD 0805 15K 1%
R384		036-13560-10	RES M/F SMD 0805 560E 1%
R387		036-13330-00	RES M/F SMD 0805 330E 5%
#R410	10	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	13	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	15	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	16	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	20	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	23	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	25	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	26	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	30	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	35	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R410	36	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	10	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	13	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	15	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	16	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	20	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	23	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	25	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	26	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	30	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	35	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
#R430	36	036-00120-05	RES 2010 0E12 1% 0.5W METAL ST
R450		036-03130-10	RES 2512 30E 5% 1W
#R451	10	036-03118-10	RES 2512 18R 5% 1W
#R451	13	036-03118-10	RES 2512 18R 5% 1W
#R451	15	036-03118-10	RES 2512 18R 5% 1W
#R451	16	036-03118-10	RES 2512 18R 5% 1W
#R451	20	not fitted	
#R451	23	not fitted	
#R451	25	not fitted	
#R451	26	not fitted	
#R451	30	not fitted	
#R451	35	not fitted	
#R451	36	not fitted	

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Ref	Var	IPN	Description
R460		036-14470-10	RES M/F SMD 0805 4K7 1%
R470		036-13100-10	RES M/F SMD 0805 100E 1%
R471		015-23150-01	CAP CER 0805 150P 5% NPO 50V
R472		036-13560-10	RES M/F SMD 0805 560E 1%
R473		036-13470-00	RES M/F SMD 0805 470E 5%
R480		036-13100-10	RES M/F SMD 0805 100E 1%
R481		045-04470-00	RES NTC SMD 4K7 5% 20MW
R490		036-14470-10	RES M/F SMD 0805 4K7 1%
R501		036-15100-10	RES M/F SMD 0805 10K 1%
R502		036-15100-10	RES M/F SMD 0805 10K 1%
R503		036-14560-00	RES M/F SMD 0805 5K6 5%
R504		036-13330-00	RES M/F SMD 0805 330E 5%
R505		036-15150-10	RES M/F SMD 0805 15K 1%
R510		036-14150-10	RES M/F SMD 0805 1K5 1%
R513		036-15100-10	RES M/F SMD 0805 10K 1%
R514		036-12330-00	RES M/F SMD 0805 33E 5%
R515		036-12560-00	RES M/F SMD 0805 56E 5%
#R517	10	036-13150-10	RES M/F SMD 0805 150E 1%
#R517	13	036-13150-10	RES M/F SMD 0805 150E 1%
#R517	15	036-13150-10	RES M/F SMD 0805 150E 1%
#R517	16	036-13150-10	RES M/F SMD 0805 150E 1%
#R517	20	036-13330-00	RES M/F SMD 0805 330E 5%
#R517	23	036-13330-00	RES M/F SMD 0805 330E 5%
#R517	25	036-13330-00	RES M/F SMD 0805 330E 5%
#R517	26	036-13330-00	RES M/F SMD 0805 330E 5%
#R517	30	036-13330-00	RES M/F SMD 0805 330E 5%
#R517	35	036-13330-00	RES M/F SMD 0805 330E 5%
#R517	36	036-13330-00	RES M/F SMD 0805 330E 5%
#R518	10	036-12330-00	RES M/F SMD 0805 33E 5%
#R518	13	036-12330-00	RES M/F SMD 0805 33E 5%
#R518	15	036-12330-00	RES M/F SMD 0805 33E 5%
#R518	16	036-12330-00	RES M/F SMD 0805 33E 5%
#R518	20	036-12180-00	RES M/F SMD 0805 18E 5%
#R518	23	036-12180-00	RES M/F SMD 0805 18E 5%
#R518	25	036-12180-00	RES M/F SMD 0805 18E 5%
#R518	26	036-12180-00	RES M/F SMD 0805 18E 5%
#R518	30	036-12180-00	RES M/F SMD 0805 18E 5%
#R518	35	036-12180-00	RES M/F SMD 0805 18E 5%
#R518	36	036-12180-00	RES M/F SMD 0805 18E 5%
#R519	10	036-13150-10	RES M/F SMD 0805 150E 1%
#R519	13	036-13150-10	RES M/F SMD 0805 150E 1%
#R519	15	036-13150-10	RES M/F SMD 0805 150E 1%
#R519	16	036-13150-10	RES M/F SMD 0805 150E 1%
#R519	20	036-13330-00	RES M/F SMD 0805 330E 5%
#R519	23	036-13330-00	RES M/F SMD 0805 330E 5%
#R519	25	036-13330-00	RES M/F SMD 0805 330E 5%
#R519	26	036-13330-00	RES M/F SMD 0805 330E 5%
#R519	30	036-13330-00	RES M/F SMD 0805 330E 5%
#R519	35	036-13330-00	RES M/F SMD 0805 330E 5%
#R519	36	036-13330-00	RES M/F SMD 0805 330E 5%
R520		036-13150-10	RES M/F SMD 0805 150E 1%
R523		036-16120-10	RES M/F SMD 0805 120K 1%
R525		036-15470-10	RES M/F SMD 0805 47K 1%
R530		036-15220-00	RES M/F SMD 0805 22K 5%
R535		036-15100-10	RES M/F SMD 0805 10K 1%
R540		036-14220-00	RES M/F SMD 0805 2K2 5%
R545		036-14470-10	RES M/F SMD 0805 4K7 1%
%R550		036-14120-00	RES M/F SMD 0805 1K2 5%
R555		036-14470-10	RES M/F SMD 0805 4K7 1%
R560		036-13470-00	RES M/F SMD 0805 470E 5%
R609		036-14100-10	RES M/F SMD 0805 1K 1%
R613		036-13560-10	RES M/F SMD 0805 560E 1%
R615		036-13100-10	RES M/F SMD 0805 100E 1%
R617		036-10000-00	RES M/F SMD 0805 0E 0.125W
R619		036-01100-10	RES 2512 1E 5% 1W
R621		036-01100-10	RES 2512 1E 5% 1W
R625		036-14100-10	RES M/F SMD 0805 1K 1%
R629		036-03270-10	RES 2512 270E 5% 1W
R633		036-14680-10	RES M/F SMD 0805 6K8 1%
R637		036-12220-00	RES M/F SMD 0805 22E 5%
R638		036-12220-00	RES M/F SMD 0805 22E 5%
R640		036-12100-10	RES M/F SMD 0805 10E 1%
R641		036-14150-10	RES M/F SMD 0805 1K5 1%
R645		036-13470-00	RES M/F SMD 0805 470E 5%
R649		036-14470-10	RES M/F SMD 0805 4K7 1%
R651		036-10000-00	RES M/F SMD 0805 0E 0.125W
R652		036-10000-00	RES M/F SMD 0805 0E 0.125W
R653		036-15100-10	RES M/F SMD 0805 10K 1%
R657		036-15100-10	RES M/F SMD 0805 10K 1%
R661		036-15100-10	RES M/F SMD 0805 10K 1%
R665		036-16100-10	RES M/F SMD 0805 100K 1%
R669		036-15470-10	RES M/F SMD 0805 47K 1%
R673		036-16100-10	RES M/F SMD 0805 100K 1%
R677		036-15470-10	RES M/F SMD 0805 47K 1%
R681		036-13100-10	RES M/F SMD 0805 100E 1%
R685		036-15150-10	RES M/F SMD 0805 15K 1%
R689		036-12100-10	RES M/F SMD 0805 10E 1%
R693		036-16100-10	RES M/F SMD 0805 100K 1%
R696		036-15560-10	RES M/F SMD 0805 56K 1%
R701		036-12220-00	RES M/F SMD 0805 22E 5%
R702		036-15470-10	RES M/F SMD 0805 47K 1%
R703		036-15470-10	RES M/F SMD 0805 47K 1%
%R704		036-10000-00	RES M/F SMD 0805 0E 0.125W
R706		036-15150-10	RES M/F SMD 0805 15K 1%
R707		036-16100-10	RES M/F SMD 0805 100K 1%
R708		036-16470-00	RES M/F SMD 0805 470K 5%
R709		036-12100-10	RES M/F SMD 0805 10E 1%
R710		036-13100-10	RES M/F SMD 0805 100E 1%
R711		036-13100-10	RES M/F SMD 0805 100E 1%
R712		036-12100-10	RES M/F SMD 0805 10E 1%
R713		036-10000-00	RES M/F SMD 0805 0E 0.125W
%R715		036-14100-10	RES M/F SMD 0805 1K 1%
R717		036-14270-10	RES M/F SMD 0805 2K7 1%
R718		036-15270-10	RES M/F SMD 0805 27K 1%
R719		036-15270-10	RES M/F SMD 0805 27K 1%
R720		036-15390-10	RES M/F SMD 0805 39K 1%
R721		036-15100-10	RES M/F SMD 0805 10K 1%
R722		036-15100-10	RES M/F SMD 0805 10K 1%
R723		036-14270-10	RES M/F SMD 0805 2K7 1%
R725		036-15390-10	RES M/F SMD 0805 39K 1%
%R726		036-13100-10	RES M/F SMD 0805 100E 1%
R727		036-15100-10	RES M/F SMD 0805 10K 1%
R728		036-15100-10	RES M/F SMD 0805 10K 1%
R730		036-13470-00	RES M/F SMD 0805 470E 5%
R731		036-13470-00	RES M/F SMD 0805 470E 5%
R732		036-13470-00	RES M/F SMD 0805 470E 5%
R742		036-13150-10	RES M/F SMD 0805 150E 1%
R743		036-13150-10	RES M/F SMD 0805 150E 1%
R744		036-12220-00	RES M/F SMD 0805 22E 5%
R746		036-12220-00	RES M/F SMD 0805 22E 5%
R747		036-12220-00	RES M/F SMD 0805 22E 5%
R748		036-15470-10	RES M/F SMD 0805 47K 1%
R749		036-15470-10	RES M/F SMD 0805 47K 1%
R750		036-12220-00	RES M/F SMD 0805 22E 5%
R752		036-12220-00	RES M/F SMD 0805 22E 5%
R753		036-17100-10	RES M/F SMD 0805 1M 1%
R754		036-14100-10	RES M/F SMD 0805 1K 1%
R756		036-16100-10	RES M/F SMD 0805 100K 1%
R757		036-16100-10	RES M/F SMD 0805 100K 1%
R758		036-14120-00	RES M/F SMD 0805 1K2 5%
R759		036-13330-00	RES M/F SMD 0805 330E 5%
R760		036-13180-00	RES M/F SMD 0805 180E 5%
R762		036-13100-10	RES M/F SMD 0805 100E 1%
R763		036-13100-10	RES M/F SMD 0805 100E 1%
R765		036-13680-10	RES M/F SMD 0805 680E 1%
R766		036-14100-10	RES M/F SMD 0805 1K 1%
R767		036-13680-10	RES M/F SMD 0805 680E 1%
R769		036-13180-00	RES M/F SMD 0805 180E 5%
R771		036-14820-10	RES M/F SMD 0805 8K2 1%
R772		036-15220-00	RES M/F SMD 0805 22K 5%
R774		036-14820-10	RES M/F SMD 0805 8K2 1%
R775		036-15180-10	RES M/F SMD 0805 18K 1%
R777		036-14220-00	RES M/F SMD 0805 2K2 5%
R780		036-12680-00	RES M/F SMD 0805 68E 5%
R782		036-12180-00	RES M/F SMD 0805 18E 5%
R784		036-13120-00	RES M/F SMD 0805 120E 5%
R785		036-14330-10	RES M/F SMD 0805 3K3 1%
R786		036-12100-10	RES M/F SMD 0805 10E 1%
R787		036-12100-10	RES M/F SMD 0805 10E 1%
R790		036-13390-10	RES M/F SMD 0805 390E 1%
R791		036-14100-10	RES M/F SMD 0805 1K 1%
R801		036-16150-00	RES M/F SMD 0805 150K 5%
R802		036-15470-10	RES M/F SMD 0805 47K 1%
R808		036-12100-10	RES M/F SMD 0805 10E 1%
R809		036-14470-10	RES M/F SMD 0805 4K7 1%
R810		036-14470-10	RES M/F SMD 0805 4K7 1%
R811		036-14470-10	RES M/F SMD 0805 4K7 1%
R812		036-14470-10	RES M/F SMD 0805 4K7 1%
R813		036-14470-10	RES M/F SMD 0805 4K7 1%
R815		036-15470-10	RES M/F SMD 0805 47K 1%
R816		036-16150-00	RES M/F SMD 0805 150K 5%
R818		036-14470-10	RES M/F SMD 0805 4K7 1%
R819		036-14470-10	RES M/F SMD 0805 4K7 1%
R821		036-15470-10	RES M/F SMD 0805 47K 1%
R822		036-15470-10	RES M/F SMD 0805 47K 1%
R824		036-14220-00	RES M/F SMD 0805 2K2 5%
R825		036-14220-00	RES M/F SMD 0805 2K2 5%
R826		036-14220-00	RES M/F SMD 0805 2K2 5%
R827		036-14220-00	RES M/F SMD 0805 2K2 5%
R828		036-14220-00	RES M/F SMD 0805 2K2 5%
R829		036-14220-00	RES M/F SMD 0805 2K2 5%
R830		036-14220-00	RES M/F SMD 0805 2K2 5%
R831		036-14220-00	RES M/F SMD 0805 2K2 5%
R832		036-14220-00	RES M/F SMD 0805 2K2 5%
R833		036-14220-00	RES M/F SMD 0805 2K2 5%
R835		036-14220-00	RES M/F SMD 0805 2K2 5%
R836		036-14220-00	RES M/F SMD 0805 2K2 5%
R837		036-14220-00	RES M/F SMD 0805 2K2 5%
R840		036-14220-00	RES M/F SMD 0805 2K2 5%
R841		036-14220-00	RES M/F SMD 0805 2K2 5%
R842		036-14220-00	RES M/F SMD 0805 2K2 5%
R843		036-14220-00	RES M/F SMD 0805 2K2 5%
R845		036-13470-00	RES M/F SMD 0805 470E 5%
R847		036-13470-00	RES M/F SMD 0805 470E 5%
R848		036-14470-10	RES M/F SMD 0805 4K7 1%
R849		036-13470-00	RES M/F SMD 0805 470E 5%
R850		036-13470-00	RES M/F SMD 0805 470E 5%
R853		036-14470-10	RES M/F SMD 0805 4K7 1%
R854		036-14470-10	RES M/F SMD 0805 4K7 1%
R855		036-14470-10	RES M/F SMD 0805 4K7 1%
%R857		036-10000-00	RES M/F SMD 0805 0E 0.125W
R859		036-16150-00	RES M/F SMD 0805 150K 5%
R861		036-16150-00	RES M/F SMD 0805 150K 5%
R863		036-16150-00	RES M/F SMD 0805 150K 5%
R865		036-16100-10	RES M/F SMD 0805 100K 1%
R867		036-16100-10	RES M/F SMD 0805 100K 1%

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Ref	Var	IPN	Description
R871		036-15470-10	RES M/F SMD 0805 47K 1%
R872		036-14470-10	RES M/F SMD 0805 4K7 1%
R873		036-15330-10	RES M/F SMD 0805 33K 1%
R874		036-14470-10	RES M/F SMD 0805 4K7 1%
R875		036-15470-10	RES M/F SMD 0805 47K 1%
R876		036-14470-10	RES M/F SMD 0805 4K7 1%
R877		036-14470-10	RES M/F SMD 0805 4K7 1%
R879		036-15100-10	RES M/F SMD 0805 10K 1%
R880		036-14470-10	RES M/F SMD 0805 4K7 1%
R882		036-13470-00	RES M/F SMD 0805 470E 5%
R325A		036-14100-10	RES M/F SMD 0805 1K 1%
R340C		036-13220-10	RES M/F SMD 0805 220E 1%
%RV210		040-05100-23	POT 10K LOG PCB 15MM SSHAFT
RV220		042-05500-05	RES PRE SMD 50K CER 4MM SQ
RV320		042-05100-05	RES PRE SMD 10K CER 4MM SQ
RV330		042-06500-05	RES PRE SMD 500K CER 4MM SQ
RV805		042-05200-05	RES PRE SMD 20K CER 4MM SQ
SK200		240-10000-05	CONN SMD 8W 2R SKT M/MATCH
SK205		240-02020-05	SKT STEREO PH JACK PCB MTG
SK310		240-02100-44	SKT COAX MINI ANGLED PCB MTG
SK410		240-02100-44	SKT COAX MINI ANGLED PCB MTG
SK501		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK502		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK503		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK504		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK505		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK513		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK522		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK531		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK532		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK533		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK534		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK535		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK536		240-04021-77	SKT 64W JACK 1.3 PCB MTG
SK805		240-10000-07	CONN SMD 16W 2R SKT M/MATCH
SK810		240-04020-42	SKT 44 PIN SMD PLCC
SW230		232-00010-26	SW PUSH SPDT RA PCB MTG
%T210B		054-00010-18	XFMR LINE SMD 600 OHM P2781
T610		050-15119-52	COIL SMD 680UH XFMR 5119-T052

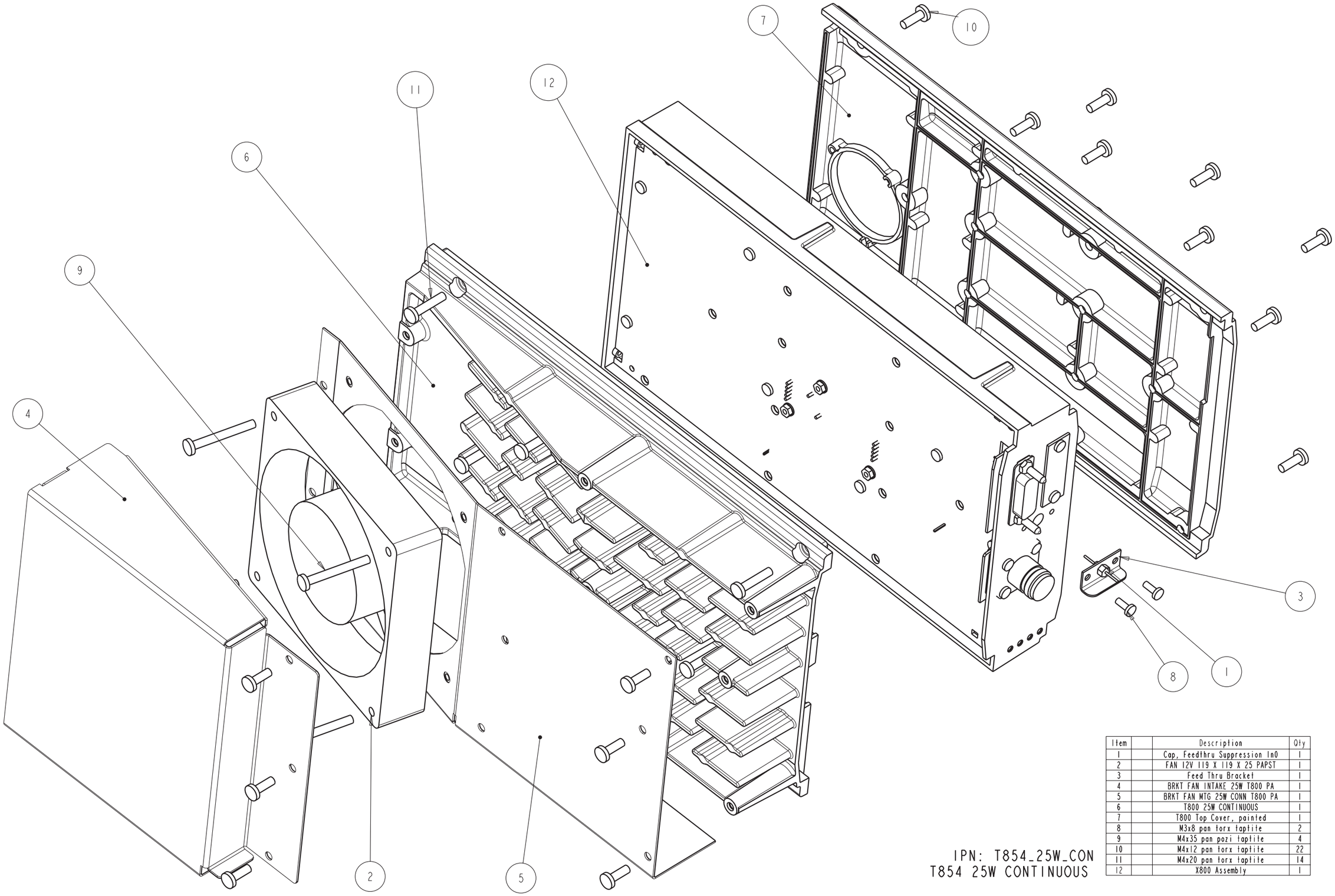
Ref	Var	IPN	Description

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T854 Mechanical and Miscellaneous Parts

IPN	Legend	Description
012-04100-05	1	CAP F/THRU 1N SUPN FLTR SMTG
070-01002-00		DRNG STD AUX T800 SII
201-00030-02		WIRE T/C 7/0.2MM PVC RED
219-02605-00		COAX 120MM 2 MINI PIN CRIMP
219-02638-00		SII AUX DRNG LOOM ASSY
220-01686-03		PCB T854 25W CONTINUOUS
232-00020-26		SW BUTT 232-00010-26
240-00026-32		PLG 32W 1ROW PCB MTG
240-04020-62		SKT 2W 0.1" RECEP SHORTING LNK
258-00010-08	2	FAN 12V 119 X 119 X 25 PAPST
302-05204-00	3	BRKT A3M2314 F/THRU MTG T859
302-05258-00	4	BRKT FAN INTAKE 25W T800 PA
302-05259-00	5	BRKT FAN MTG 25W CONN T800 PA
303-11226-00		CHASS 25W CONN T800 PA
303-50074-00		CLIP SPRING XSTR CLAMP T857
303-50078-00		CLIP 0.1 SPRING WIRE CBL CLAMP
308-13142-00	6	HSINK T800 25U CONTINUOUS
349-00020-09		SCRW 4-40*3/8" T/T P/P BLK
349-00020-36	8	SCRW M3*8MM T/T P/T BLK
349-00020-49	9	SCRW M4*35MM T/T P/P BZ
349-20430-00	10	SCRW M4*12MM T/T P/T BLK
352-00010-08		NUT M3 COLD FORM HEX S/T BZ
352-00010-35		NUT 8-32 UNC HEX XSTR MTG
353-00010-13		WSHR M3 S/PROOF INT BZ
356-00010-01		TAG SOLDER 3MM SHORT M6132/3.2
362-00010-23		INSULR GSK SIL CLIP MTG TO-220
369-00010-14		TIE CBL NYLON 100*2.6MM
400-00020-07		SLEEVING 2MM SIL RUBBER

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Item		Description	Qty
1		Cap, Feedthru Suppression In0	1
2		FAN 12V 119 X 119 X 25 PAPST	1
3		Feed Thru Bracket	1
4		BRKT FAN INTAKE 25W T800 PA	1
5		BRKT FAN MTG 25W CONN T800 PA	1
6		T800 25W CONTINUOUS	1
7		T800 Top Cover, painted	1
8		M3x8 pan torx taptite	2
9		M4x35 pan pozi taptite	4
10		M4x12 pan torx taptite	22
11		M4x20 pan torx taptite	14
12		X800 Assembly	1

IPN: T854_25W_CON
T854 25W CONTINUOUS

T854 Mechanical Assembly
220-01686-03

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T854 Grid Reference Index (IPN 220-01686-03)

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
C100	1:P5	1-A0	%C294	1:C7	2-U2	C372	1:F9	3-P7	C516	1:H5	5-H4
C101	1:P5	1-A0	%C295	1:C7	2-U2	C373	1:F9	3-P7	C517	1:H5	5-H4
C102	1:P4	1-C1	C300	1:F8	3-B8	C374	1:E6	3-P1	C518	1:H5	5-J3
C103	1:P5	1-B0	C301	1:F9	3-B7	C375	1:E6	3-P1	C519	1:H5	5-J5
C201	1:C1	2-B3	C302	1:E8	3-A6	C376	1:E6	3-Q1	C525	1:K4	5-K5
C202	1:C1	2-C3	C303	1:E8	3-A6	C377	1:E6	3-Q1	C530	1:K5	5-L4
%C203A	1:C1	2-B2	C305	1:F7	3-E5	C378	1:F6	3-R1	C535	1:K5	5-L2
%C203B	1:A2	2-D2	C306	1:F7	3-F7	C380	1:F6	3-R1	C536	1:K5	5-N2
%C204	1:B3	2-F3	C307	1:F7	3-F7	C381	1:E3	3-M2	C537	1:K5	5-N2
%C205	1:A3	2-E3	C311	1:E7	3-B3	C382	1:E3	3-M2	C605	1:L6	6-C8
C207	1:C7	2-G0	C313	1:E9	3-C8	C383	1:F3	3-B2	C607	1:L6	6-D8
C209	1:C6	2-T0	C315	1:E8	3-C7	C384	1:F5	3-N3	C608	1:L6	6-D8
C210	1:C7	2-J0	C316	1:E9	3-E9	C385	1:F3	3-C0	C610A	1:M5	6-F8
C211	1:B7	2-H3	C319	1:E8	3-E8	C386	1:F5	3-P3	C610B	1:L5	6-F8
C213	1:A6	2-C5	C325	1:E7	3-D4	C387	1:E4	3-H5	C611A	1:M6	6-H8
C215	1:A6	2-D5	C327	1:F7	3-C4	C388	1:F5	3-K5	C611B	1:M5	6-H8
C217	1:B6	2-C5	C330A	1:E8	3-G8	C389	1:F5	3-K6	C623	1:N6	6-P7
C219	1:B6	2-C5	C330B	1:E8	3-G8	C390	1:F8	3-H7	C625	1:M6	6-Q6
C221	1:C5	2-L8	C331	1:F3	3-B2	C391	1:F8	3-H7	C626	1:M6	6-Q6
C223	1:D4	2-J6	C332	1:F8	3-B4	C392	1:F5	3-P2	C628	1:M6	6-Q6
C225	1:B3	2-N7	C333	1:F3	3-B0	C393	1:F5	3-P2	C630	1:M5	6-J5
C227	1:B4	2-O6	C334	1:F7	3-C4	C394	1:F5	3-J5	C631A	1:N5	6-L6
C229	1:B4	2-O6	C335	1:F7	3-F5	C405	1:H8	4-D4	C634	1:N5	6-L5
C230	1:B4	2-J0	%C336	1:F7	3-F5	#C410	1:J8	4-E3	C636	1:M5	6-M5
C232	1:B4	2-P6	C337	1:E6	3-J2	C415	1:J7	4-F3	C638	1:M5	6-N5
C233	1:B3	2-P7	C338	1:E7	3-G3	C418	1:G7	4-C6	C640	1:M5	6-R4
C235	1:B5	2-N5	C339	1:E7	3-G3	C419	1:G8	4-C6	C655	1:M4	6-C1
C237	1:B4	2-N5	C340A	1:E8	3-L8	C420	1:G8	4-D6	C660	1:L5	6-Q1
C239	1:B4	2-O4	C340B	1:F8	3-L8	C421	1:G8	4-E6	C665	1:L5	6-P1
C240	1:D2	2-T6	C341	1:E7	3-H3	C430	1:J7	4-H6	C670	1:L5	6-N1
C241	1:B4	2-P5	C342	1:E7	3-H3	C435	1:M7	4-J6	C673	1:L5	6-K2
C242	1:B4	2-P5	C343	1:F3	3-J3	C438	1:K8	4-G4	C677	1:L6	6-K1
C243	1:B4	2-R5	C344	1:F3	3-J4	#C439	1:J8	4-F5	C681	1:L6	6-J2
C245	1:C5	2-B5	C345	1:F3	3-K4	#C440	1:K8	4-H4	C684	1:L6	6-H2
C247	1:C5	2-B5	C346	1:F3	3-K4	#C445	1:K7	4-J4	C687	1:L6	6-J1
C249	1:D4	2-E6	C347	1:F3	3-L4	C450	1:L7	4-K5	C690	1:L6	6-J1
C251	1:C4	2-C9	C348	1:F3	3-M4	C455	1:M7	4-L5	C693	1:L6	6-H1
C253	1:D3	2-E8	C349	1:F3	3-M4	#C460	1:L7	4-K4	C700	1:K4	7-A8
C255	1:D3	2-E8	C350A	1:F7	3-J8	#C465	1:L8	4-L4	C703	1:J3	7-B7
C257	1:D4	2-C8	C350B	1:F7	3-J8	C470	1:L8	4-M4	C706	1:J2	7-A5
C259	1:C7	2-J2	C351	1:F4	3-E1	#C480	1:M8	4-N4	C708	1:J2	7-D9
C260	1:C8	2-I0	C352	1:F4	3-F0	C481	1:K8	4-P7	C709	1:K4	7-E9
C261	1:C7	2-K2	C353	1:F4	3-G0	C485	1:M9	4-M5	C710	1:J3	7-D8
C263	1:D6	2-M2	C354	1:F4	3-G0	C490	1:M9	4-N5	C711	1:J3	7-B7
%C265	1:D8	2-M1	C355	1:F4	3-G1	C493	1:M8	4-N4	C712	1:H2	7-D7
C267	1:C8	2-O2	C356	1:F3	3-H2	C496	1:N7	4-P3	%C713	1:H2	7-E6
&C269	1:C8	2-O2	C361	1:E4	3-K1	C499	1:N7	4-Q3	C714	1:J2	7-E8
&C271	1:C8	2-P2	C362	1:E3	3-J1	C503	1:K6	5-L9	C719	1:J4	7-F8
C273	1:C8	2-P2	C363	1:E4	3-K1	C504	1:K6	5-M6	C720	1:J4	7-F8
C275	1:C3	2-E7	C364	1:E4	3-L1	C505	1:K6	5-N7	C722	1:J4	7-G8
C277	1:B4	2-I4	C365	1:E4	3-L1	C507	1:K6	5-B5	C724	1:J4	7-H6
C279	1:B5	2-I4	C366	1:E4	3-M1	C508	1:K6	5-C0	C725	1:J3	7-J6
C281	1:B5	2-I3	C367	1:E4	3-L1	C509	1:K6	5-D0	C726	1:J4	7-J6
C283	1:B5	2-J2	C368	1:E5	3-M1	C510	1:J5	5-D1	C727	1:J3	7-K8
C285	1:C7	2-K2	C369	1:E6	3-P1	C511	1:J5	5-D0	C729	1:J3	7-M8
C287	1:C6	2-L3	C370A	1:F8	3-K7	C512	1:J5	5-D1	%C733	1:H2	7-E3
&C289	1:C8	2-Q2	C370B	1:F8	3-L7	C513	1:J5	5-H1	C735	1:J2	7-A1
C291	1:C7	2-T2	C370C	1:F8	3-L7	C514	1:J5	5-J1	C736	1:J2	7-B1
C293	1:D7	2-T2	C371	1:F8	3-N7	C515	1:K5	5-H0	C740A	1:H2	7-B4

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Device	PCB	Circuit
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
C743	1:H2	7-B1
C745	1:G3	7-D1
C750	1:G4	7-K0
C757	1:G4	7-F4
C759	1:G4	7-F5
C761	1:G3	7-K4
C762	1:G3	7-K4
C764	1:H3	7-K2
C765	1:G3	7-K2
C767	1:H3	7-L3
C769	1:H4	7-M4
C770	1:H4	7-N4
C772	1:G4	7-M2
C774	1:H4	7-N2
C776	1:H4	7-N2
C782	1:G2	7-P1
C784	1:G2	7-Q1
C785	1:G3	7-P1
C786	1:G2	7-R1
C788	1:G3	7-P0
C790	1:G3	7-Q0
C792	1:G4	7-R1
C810	1:L3	8-H8
C812	1:L2	8-D5
C813	1:K2	8-G5
C822	1:N2	8-Q1
C823	1:M3	8-Q1
C824	1:M2	8-Q1
C826	1:N3	8-P0
C827	1:N3	8-P1
C828	1:N3	8-P0
C830	1:N3	8-J0
C838	1:N4	8-N0
C841	1:N2	8-K2
C844	1:M2	8-J2
C880	1:M2	8-K3
#C900	1:N8	9-C6
#C910	1:P8	9-D6
#C920	1:P8	9-E6
C930	2:P8	9-E7
#C940	1:P7	9-F6
#C950	1:P7	9-G6
C960	2:P7	9-G7
#C970	1:P7	9-H6
#C980	1:P6	9-J6
#C990	1:P6	9-K6
CTCSSM	1:D8	2-M1
#CV475	1:M8	4-M4
D111	1:P4	1-R1
%D205	1:B2	2-D3
%D210	1:B2	2-D3
D211	1:B7	2-U6
D212	1:B7	2-T5
D220	1:B4	2-R5
D220	1:B4	2-R7
D230	1:B7	2-U5
D240	1:D4	2-E7
D240	1:D4	2-E7
D245	1:D4	2-H7
D245	1:D4	2-H7
D250	1:D3	2-E8
D250	1:D3	2-E8
D260	1:C2	2-C8
D260	1:C2	2-B8
D270	1:C2	2-C7
D270	1:C2	2-B7
D340	1:F4	3-F1
D360	1:F4	3-F1
D380	1:F4	3-G1
D381	1:F5	3-J5

Device	PCB	Circuit
D420	1:M8	4-Q5
D420	1:M8	4-N5
D440	1:N7	4-P4
D440	1:N7	4-P4
D510	1:K6	5-K9
D510	1:K6	5-K8
D610	1:N6	6-N7
D610	1:N6	6-N7
D620	1:N4	6-B1
D620	1:N4	6-B1
D630	1:M5	6-E2
D630	1:M5	6-E2
D635A	1:M5	6-F2
D640	1:L5	6-N1
D640	1:L5	6-N1
D645	1:M5	6-R4
D710	1:J3	7-L8
D710	1:J3	7-L8
D720	1:J3	7-N8
D720	1:J3	7-N8
D730	1:H3	7-J1
D732	1:H3	7-K2
D810	1:M2	8-B2
IC210	1:C7	2-J0
IC210	1:C7	2-U2
IC210	1:C7	2-G0
IC210	1:C7	2-K1
IC210	1:C7	2-K2
IC220	1:C6	2-T2
IC220	1:C6	2-T0
IC220	1:C6	2-L3
IC230	1:B4	2-I0
IC230	1:B4	2-I4
IC230	1:B4	2-I2
IC230	1:B4	2-Q5
IC230	1:B4	2-O5
IC240	1:C4	2-J5
IC250	1:D3	2-D7
IC260	1:C8	2-S2
IC260	1:C8	2-H0
IC260	1:C8	2-T3
IC260	1:C8	2-P2
IC260	1:C8	2-N2
IC330	1:E8	3-D8
IC330	1:E8	3-D7
IC330	1:E8	3-H8
IC340	1:F8	3-B3
IC340	1:F8	3-M8
IC340	1:F8	3-M8
IC350	1:F7	3-F6
IC350	1:F7	3-C5
IC350	1:F7	3-K8
IC370	1:F9	3-M6
IC610	1:L5	6-G8
IC630	1:N5	6-K5
IC640	1:M5	6-M5
IC640	1:M5	6-Q4
IC640	1:M5	6-E1
IC650	1:L5	6-C4
=IC700	1:K3	7-A8
IC710	1:J2	7-D8
IC710	1:J2	7-C6
IC710	1:J2	7-D7
IC710	1:J2	7-D5
IC710	1:J2	7-E6
IC710	1:J2	7-C5
IC710	1:J2	7-D6
IC720	1:H3	7-N6
IC720	1:H3	7-J0
IC720	1:H3	7-M7
IC720	1:H3	7-L7
IC720	1:H3	7-K7
IC720	1:H3	7-E8
IC720	1:H3	7-J0
IC730	1:J4	7-H8

Device	PCB	Circuit
IC730	1:J4	7-G7
IC740	1:H2	7-D1
IC750	1:H4	7-M3
IC750	1:H4	7-G5
IC750	1:H4	7-K0
IC820	1:L4	8-K5
IC830	1:N3	8-L0
IC830	1:N3	8-H0
IC830	1:N3	8-L0
IC830	1:N3	8-Q0
IC830	1:N3	8-L1
L302	1:F9	3-B5
L303	1:F8	3-L8
L304	1:E4	3-K2
L305	1:E3	3-J1
L320	1:F4	3-G2
L321	1:E4	3-L1
L322	1:E5	3-M1
L323	1:E6	3-P1
L324	1:E6	3-Q1
L325	1:E7	3-Q1
L326	1:F6	3-P2
L327	1:F6	3-P3
L328	1:F8	3-H7
L333	1:E7	3-H4
L334	1:F3	3-B0
L405	1:H8	4-C3
L410	1:H7	4-D4
L415	1:H7	4-D3
L418	1:H8	4-F4
L420	1:G8	4-D6
L425	1:G7	4-C6
L430	1:J7	4-G6
L435	1:J7	4-F6
L440	1:K8	4-G4
L445	1:K7	4-G4
L450	1:J7	4-G3
L455	1:K8	4-J4
L460	1:M7	4-J6
L465	1:L7	4-J5
L470	1:L8	4-K4
L475	1:L8	4-L4
L480	1:M9	4-N6
L481	1:K8	4-Q7
L485	1:N7	4-Q4
L520	1:K6	5-C1
L521	1:K5	5-M3
L522	1:H5	5-J4
L601	1:L6	6-D8
L701	1:G3	7-Q1
#L910	1:P8	9-C8
#L920	1:P8	9-E8
#L930	1:P7	9-G8
#L940	1:P6	9-J8
LINK1	1:B2	2-E3
P100	1:Q6	1-R8
P150	1:P2	1-Q4
P160	1:P2	1-Q4
P170	1:P2	1-Q3
P204	1:D1	2-A3
P208	1:D1	2-A3
P215	1:D4	2-A7
P217	1:D4	2-A7
P219	1:D2	2-A8
P225	1:D2	2-A7
P230	1:B5	2-M9
P231	1:D7	2-M9
P233	1:C1	2-F3
P235	1:C1	2-F3
P237	1:B7	2-G3
P239	1:B6	2-M9
P240	1:B7	2-M9
P245	1:B8	2-S5
P249	1:B7	2-V5

Device	PCB	Circuit
P251	1:B7	2-V5
P255	1:C4	2-L1
P257	1:C2	2-L1
P259	1:B8	2-L0
P261	1:B8	2-L0
P263	1:B1	2-L0
P267	1:C9	2-Q2
P269	1:C9	2-S3
P271	1:C9	2-R2
P273	1:C9	2-S3
P275	1:C7	2-U2
P290	1:D5	2-R1
P291	1:D5	2-S1
P805	1:M2	8-A2
P810	1:L3	8-B6
P820	1:L4	8-J8
P825	1:L4	8-J8
P830	1:L4	8-J8
P835	1:L4	8-J7
P840	1:L4	8-J7
PL100	1:P3	1-E1
PL201	1:C4	2-K5
PL202	1:C3	2-K4
Q100	1:N4	1-B0
Q101	1:N4	1-B0
Q102	1:P4	1-C1
Q210	1:B6	2-D5
Q211	1:P2	2-B3
Q220	1:B4	2-O6
Q230	1:B4	2-P7
Q240	1:B7	2-U6
Q250	1:B7	2-U5
Q260	1:C4	2-C9
Q270	1:D2	2-D7
Q320	1:E7	3-D4
Q325	1:E7	3-F3
Q326	1:E7	3-G3
Q330	1:E8	3-F4
Q331	1:F5	3-J6
Q331	1:F5	3-K6
Q332	1:F6	3-J6
Q333	1:F8	3-H6
Q334	1:F5	3-J5
Q335	1:F3	3-K4
Q336	1:E5	3-N1
Q337	1:E3	3-J1
Q340	1:F3	3-L4
Q341	1:E3	3-K3
Q345	1:F3	3-M3
Q410	1:J8	4-F4
Q420	1:K8	4-J4
Q505	1:J6	5-K8
Q510	1:J5	5-E1
Q520	1:H5	5-J4
Q530	1:K5	5-H1
Q540	1:K5	5-L3
Q550	1:K5	5-L4
Q610	1:L6	6-D8
Q620	1:N6	6-P6
Q630	1:M6	6-N5
Q660	1:L5	6-M1
Q670	1:L6	6-K1
Q710	1:J3	7-K8
Q720	1:J4	7-K8
Q730	1:J3	7-M8
Q740	1:J3	7-M8
Q750	1:G4	7-F4
Q760	1:H3	7-J3
Q770	1:H3	7-J1
Q775	1:H3	7-K3
Q780	1:H3	7-K3
Q785	1:H3	7-K2
Q790	1:H3	7-M3
Q795	1:G3	7-P1
Q810	1:M2	8-C3

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Device	PCB	Circuit
Q820	1:L2	8-C5
Q830	1:L2	8-C6
Q840	1:L2	8-E5
Q850	1:M2	8-E5
Q860	1:L4	8-B3
R100	1:P5	1-B1
R101	1:P4	1-C1
R102	1:P4	1-B0
R103	1:N3	1-C0
%R150	1:P2	1-R4
R160	1:P2	1-R3
%R200	1:B2	2-C3
%R200A	1:B2	2-C4
%R201	1:B3	2-E3
R202	1:C1	2-F3
%R203	1:B3	2-C2
%R203A	1:B3	2-C2
%R203B	1:C3	2-B2
%R203C	1:D1	2-B3
%R203D	1:D1	2-B3
%R203E	1:A2	2-F3
R204	1:C7	2-F0
R205	1:C7	2-H0
R206	1:B6	2-D6
R207	1:B6	2-D5
R208	1:B6	2-C5
R209	1:B6	2-C5
R210	1:B6	2-D5
%R211	1:B2	2-E3
R212	1:C4	2-I6
R213	1:D4	2-L8
R214	1:D4	2-L8
R215	1:C4	2-J6
R216	1:B4	2-N7
R217	1:B4	2-P7
R218	1:B3	2-P7
R219	1:B3	2-Q7
%R220	1:B2	2-E3
R221	1:B7	2-U6
%R222	1:B7	2-H3
R223	1:B4	2-N5
R224	1:B4	2-N5
R225	1:B4	2-O5
R226	1:B4	2-O4
R227	1:B4	2-O4
%R228	1:A2	2-E3
R229	1:A4	2-P6
R230	1:B4	2-P6
R231	1:B4	2-P5
R232	1:B4	2-P5
R233	1:B4	2-P5
%R234	1:B7	2-H3
R235	1:B4	2-Q5
R236	1:C5	2-J5
R237	1:B7	2-U6
R238	1:B7	2-U6
R239	1:B8	2-T5
R240	1:D2	2-B8
R241	1:B8	2-T5
R242	1:B7	2-T5
R243	1:D2	2-B7
R244	1:C6	2-B5
R245	1:D4	2-J6
%R246	1:D9	2-P1
R247	1:C3	2-B9
R248	1:C3	2-C9
R249	1:D4	2-C9
R251	1:C4	2-K6
R253	1:C7	2-K2
R254	1:C6	2-K2
R255	1:C7	2-L1
R256	1:D8	2-M2
R257	1:D8	2-M1
R258	1:D8	2-M1
R259	1:D8	2-M1
R260	1:C8	2-M2
R262	1:D8	2-N2
R263	1:D8	2-N2
&R264	1:C8	2-O2
&R265	1:C8	2-O2
&R266	1:C8	2-P2
R267	1:C8	2-Q2
R268	1:C2	2-C7
R269	1:C2	2-C8
R270	1:C3	2-D8
R271	1:C3	2-D7
R272	1:C4	2-I4
R273	1:B4	2-I5
R274	1:B5	2-I4
R275	1:B5	2-J5
R276	1:D4	2-F7
%R276A	1:D2	2-B4
R277	1:B5	2-I3
R278	1:B5	2-I2
R279	1:B5	2-J2
R280	1:B5	2-J2
R282	1:D7	2-J3
R283	1:C7	2-J3
R284	1:C7	2-K2
R285	1:C9	2-R2
R286	1:C7	2-K3
R287	1:C8	2-S2
R288	1:C6	2-L3
R289	1:C9	2-R2
&R290	1:C8	2-Q2
%R291	1:C9	2-R2
R292	1:C9	2-S3
R293	1:C9	2-S3
R294	1:D8	2-T3
R295	1:D8	2-U3
R296	1:D6	2-T2
R297	1:C7	2-T2
%R298	1:C7	2-U2
R299	1:C6	2-V2
R300	1:F8	3-B9
R301	1:E9	3-C8
R302	1:F9	3-B7
R303	1:E8	3-C7
R304	1:E8	3-E9
R305	1:E8	3-E7
R306	1:E7	3-B6
R307	1:E8	3-B6
%R308	1:E8	3-E9
R309	1:F8	3-F7
%R310	1:E8	3-E8
R311	1:E8	3-B3
R312	1:E7	3-B3
R313	1:E7	3-B3
R316	1:E8	3-E6
R319	1:F7	3-E5
R320	1:F6	3-J5
R323	1:E3	3-J1
R324	1:F7	3-F5
R325	1:F8	3-G5
R325A	1:F6	3-H5
R326	1:E5	3-M1
R327	1:E4	3-H1
R328	1:E3	3-H1
R329	1:E3	3-J2
R330	1:E8	3-H9
R331	1:F4	3-H1
R332	1:F4	3-H1
R334	1:F3	3-B1
R336	1:E3	3-M2
R337	1:F5	3-Q2
R338	1:F9	3-B5
R339	1:E7	3-B5
R340	1:E7	3-B4
R340C	1:F8	3-M9
R341	1:F7	3-D4
R342	1:E5	3-N3
R343	1:F7	3-D5
R344	1:F5	3-N3
R345	1:F5	3-K5
R346	1:F5	3-K6
R347	1:F7	3-E3
R348	1:E3	3-H5
R349	1:E8	3-F3
R350	1:F8	3-K9
R351	1:E7	3-H2
R352	1:F3	3-B2
R353	1:E7	3-G3
R354	1:F3	3-C2
R355	1:E7	3-F3
R356	1:D7	3-G3
R357	1:E8	3-F4
R359	1:E7	3-H3
R360	1:F3	3-J3
R361	1:E7	3-H3
R362	1:F3	3-J4
R363	1:F3	3-J4
R364	1:E3	3-K3
R365	1:F3	3-J3
R366	1:E8	3-F4
R367	1:F3	3-K4
R368	1:F4	3-L3
R369	1:F3	3-L4
R370	1:F8	3-K8
R371	1:E8	3-N7
R372	1:E8	3-N7
R373	1:E8	3-N7
R374	1:E9	3-N6
R376	1:F3	3-L2
R378	1:F6	3-K7
R379	1:F5	3-J7
R380	1:F8	3-J7
R381	1:F4	3-E1
R382	1:F4	3-F1
R383	1:F4	3-F0
R384	1:F4	3-G1
R387	1:E4	3-H1
#R410	1:H8	4-B4
#R420	1:H8	4-B3
#R430	1:H8	4-B4
#R440	1:H8	4-C3
R450	1:H7	4-D3
#R451	1:J8	4-F5
R460	1:M8	4-P5
R470	1:N8	4-P5
R471	1:N8	4-Q5
R472	1:N8	4-Q5
R473	1:N8	4-R6
R480	1:M8	4-N4
R481	1:K8	4-P7
R490	1:N7	4-P3
R501	1:J6	5-J8
R502	1:J6	5-J8
R503	1:J6	5-K8
R504	1:K6	5-K9
R505	1:K6	5-L8
R510	1:K6	5-L8
R513	1:J5	5-G1
R514	1:K6	5-N6
R515	1:H6	5-H5
#R517	1:G5	5-F2
#R518	1:G5	5-F3
#R519	1:G5	5-G2
R520	1:K6	5-C1
R523	1:J5	5-D1
R525	1:J5	5-D1
R530	1:J5	5-E1
R535	1:J5	5-F1
R540	1:H5	5-K4
R545	1:K5	5-H0
%R550	1:K5	5-K2
%R551	1:K5	5-L2
R555	1:K5	5-L3
R560	1:K4	5-L5
R609	1:L6	6-B8
R613	1:L6	6-C8
R615	1:M5	6-F9
R617	1:M5	6-H8
R619	1:N6	6-P7
R621	1:N6	6-P7
R625	1:N6	6-P7
R629	1:M6	6-N6
R633	1:M5	6-P5
R637	1:M5	6-J6
R638	1:M5	6-J6
R640	1:M5	6-Q4
R641	1:N5	6-K5
R645	1:N5	6-L5
R649	1:M5	6-M5
R651	1:L4	6-B4
R652	1:L4	6-B4
R653	1:M5	6-P5
R657	1:M5	6-C1
R661	1:M5	6-D2
R665	1:M5	6-D1
R669	1:M5	6-D2
R673	1:M5	6-D0
R677	1:M4	6-F2
R681	1:L5	6-P1
R685	1:L5	6-L2
R689	1:L6	6-J3
R693	1:L5	6-N1
R696	1:L5	6-N0
R701	1:K4	7-A9
R702	1:K4	7-B9
R703	1:K4	7-B8
%R704	1:J4	7-G8
=R705	1:K3	7-A7
R706	1:J3	7-B6
R707	1:H3	7-C7
R708	1:J3	7-B6
R709	1:J3	7-D9
R710	1:H2	7-D7
R711	1:J2	7-B5
R712	1:K4	7-E9
R713	1:J4	7-F8
%R714	1:J4	7-F8
%R715	1:K4	7-H6
%R716	1:J4	7-F7
R717	1:H4	7-H7
R718	1:J4	7-H7
R719	1:J3	7-J7
R720	1:H3	7-K7
R721	1:J3	7-K9
R722	1:J4	7-K8
R723	1:J3	7-L7
R725	1:J3	7-M7
%R726	1:H3	7-M6
R727	1:J3	7-M9
R728	1:J3	7-M8
R730	1:K2	7-A2
R731	1:K2	7-A2
R732	1:K2	7-A2
R742	1:H2	7-C4
R743	1:H2	7-C4
R744	1:G2	7-D4
R746	1:H3	7-D4
R747	1:H3	7-D4
R748	1:J2	7-A1
R749	1:J2	7-B1
R750	1:H4	7-K0
R752	1:G4	7-F4
R753	1:G4	7-F4
R754	1:G3	7-F4
R756	1:G3	7-F5
R757	1:G4	7-F5
R758	1:H3	7-J4
R759	1:H3	7-J4
R760	1:H3	7-K4

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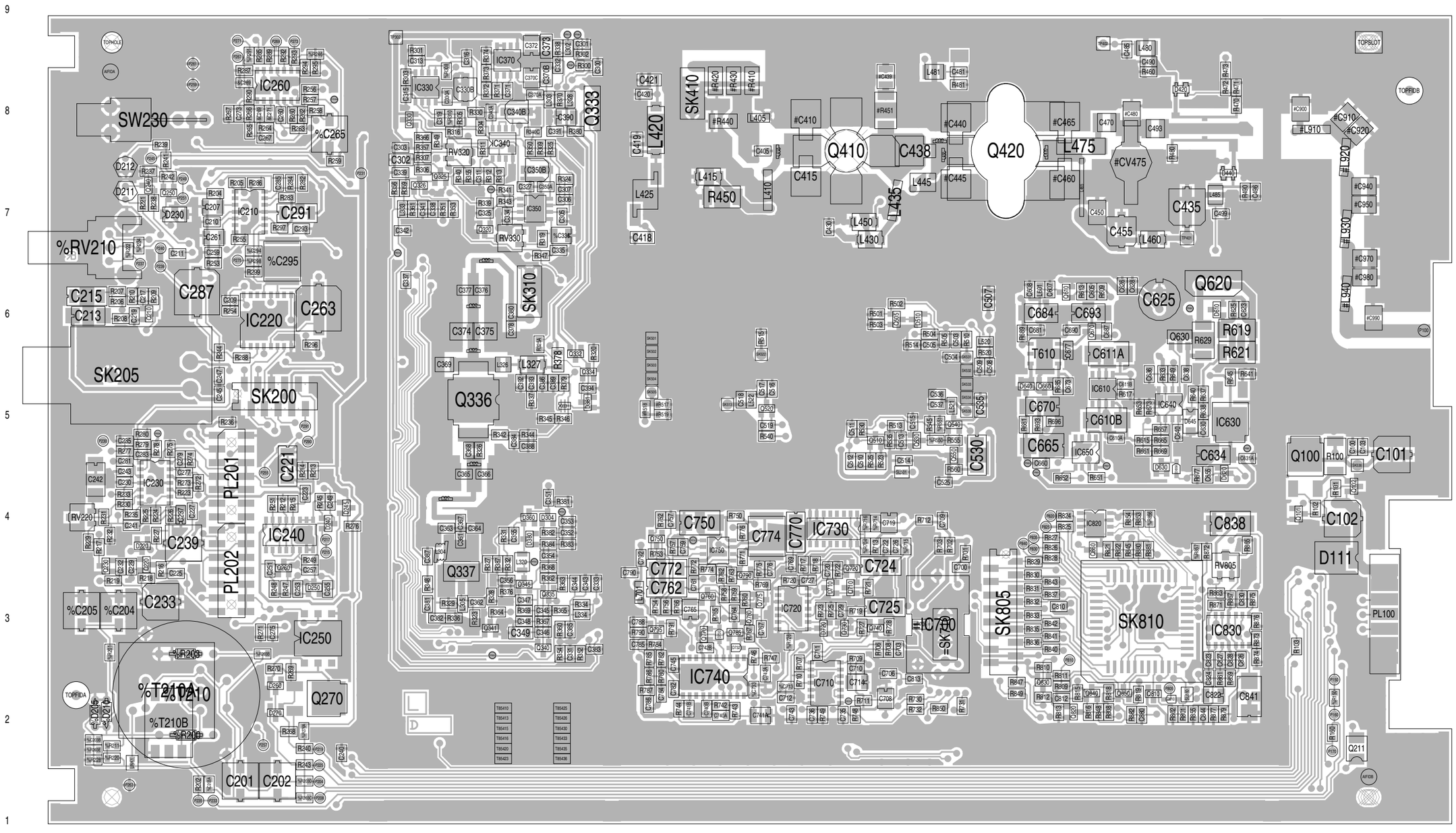
Device	PCB	Circuit
R762	1:H3	7-L4
R763	1:H3	7-L4
R765	1:H3	7-J2
R766	1:G3	7-K3
R767	1:H3	7-K2
R769	1:H3	7-L3
R771	1:H4	7-M3
R772	1:G4	7-M2
R774	1:H4	7-M3
R775	1:H4	7-N2
R777	1:H4	7-Q2
R780	1:G2	7-P1
R782	1:G3	7-P1
R784	1:G3	7-P1
R785	1:G3	7-Q1
R786	1:G2	7-Q1
R787	1:G2	7-R2
R790	1:G3	7-P0
R791	1:G3	7-Q0
R801	1:M2	8-C3
R802	1:M2	8-C2
R808	1:M2	8-B5
R809	1:L2	8-C6
R810	1:L3	8-C6
R811	1:L2	8-D6
R812	1:L2	8-C5
R813	1:L2	8-C5
R815	1:L2	8-D5
R816	1:L2	8-D5
R818	1:M2	8-E5
R819	1:M2	8-E4
R821	1:L4	8-B3
R822	1:M4	8-C3
R824	1:L4	8-J8
R825	1:L4	8-J8
R826	1:L4	8-J8
R827	1:L4	8-J7
R828	1:L4	8-J7
R829	1:L4	8-P9
R830	1:L3	8-P9
R831	1:L3	8-P9
R832	1:L3	8-P8
R833	1:L3	8-P8
R835	1:L3	8-P8
R836	1:L3	8-P8
R837	1:L3	8-P7
R840	1:L3	8-M7
R841	1:L3	8-M7
R842	1:L3	8-P6
R843	1:L3	8-P6
R845	1:M4	8-R4
R847	1:L2	8-R3
R848	1:L2	8-K3
R849	1:L2	8-R3
R850	1:K2	8-R3
R853	1:M4	8-L6
R854	1:M4	8-L6
R855	1:M2	8-Q0
%R856	1:M4	8-R2
%R857	1:M4	8-Q2
R859	1:N2	8-P1
R861	1:N2	8-P1
R863	1:N3	8-N1
R865	1:N4	8-N0
R867	1:N3	8-N1
R871	1:N3	8-M2
R872	1:M4	8-L1
R873	1:N3	8-M1
R874	1:N3	8-L0
R875	1:N3	8-M0
R876	1:N3	8-L0
R877	1:N2	8-K2
R879	1:N2	8-J2
R880	1:M4	8-J6
R881	1:M4	8-L6
R882	1:M2	8-K3

Device	PCB	Circuit
%RV210	1:B7	2-G3
RV220	1:A4	2-P6
RV320	1:E8	3-F3
RV330	1:F7	3-D5
RV805	1:N4	8-N1
SK200	1:C5	2-R1
SK205	1:B5	2-A5
SK310	1:F6	3-R1
SK410	1:G8	4-A4
SK501	1:G6	5-E7
SK502	1:G6	5-E6
SK503	1:G6	5-E5
SK504	1:G5	5-E4
SK505	1:G5	5-E3
SK513	1:H5	5-H3
SK522	1:H6	5-L6
SK531	1:K6	5-P7
SK532	1:K5	5-P6
SK533	1:K5	5-P5
SK534	1:K5	5-P4
SK535	1:K5	5-P3
SK536	1:P5	1-A0
=SK710	1:K3	7-A7
SK805	1:K3	8-Q5
SK805	1:K3	8-Q9
SK805	1:K3	8-Q9
SK805	1:K3	8-Q9
SK805	1:K3	8-Q6
SK805	1:K3	8-Q6
SK805	1:K3	8-Q6
SK805	1:K3	8-Q6
SK805	1:K3	8-Q7
SK805	1:K3	8-Q7
SK805	1:K3	8-Q7
SK805	1:K3	8-Q7
SK805	1:K3	8-Q8
SK805	1:K3	8-Q8
SK805	1:K3	8-Q8
SK805	1:K3	8-Q8
SK810	1:M3	8-G5
SL501	1:J4	5-G1
SL810	1:M2	8-B3
SW230	1:B8	2-B9
%T210	1:B2	2-C3
%T210A	1:B2	2-D2
%T210B	1:B2	2-D1
T610	1:L6	6-M2
T85410	1:F2	1-F0
T85413	1:F2	1-F0
T85415	1:F2	1-G0
T85416	1:F2	1-G0
T85420	1:F2	1-H0
T85423	1:F2	1-H0
T85425	1:F2	1-H0
T85426	1:F2	1-J0
T85430	1:F2	1-J0
T85433	1:F2	1-K0
T85435	1:F2	1-K0
T85436	1:F2	1-L0
TP206	1:B5	2-M8
TP302	1:D9	3-A7
TP305	1:E3	3-J4
TP306	1:F9	3-B8
TP307	1:F8	3-B9
TP310	1:D7	3-D2
TP312	1:F9	3-A5
TP313	1:F4	3-L3
TP314	1:F4	3-L3
TP320	1:E7	3-C5
TP401	1:M7	4-G7
TP402	1:L9	4-P6
TP601	1:N5	6-J6
TP602	1:M6	6-Q6
TP603	1:L5	6-Q1

Device	PCB	Circuit
TP604	1:L4	6-L6
TP607	1:L5	6-J9
TP710	1:G4	7-G5
TP715	1:J2	7-B5

Device	PCB	Circuit

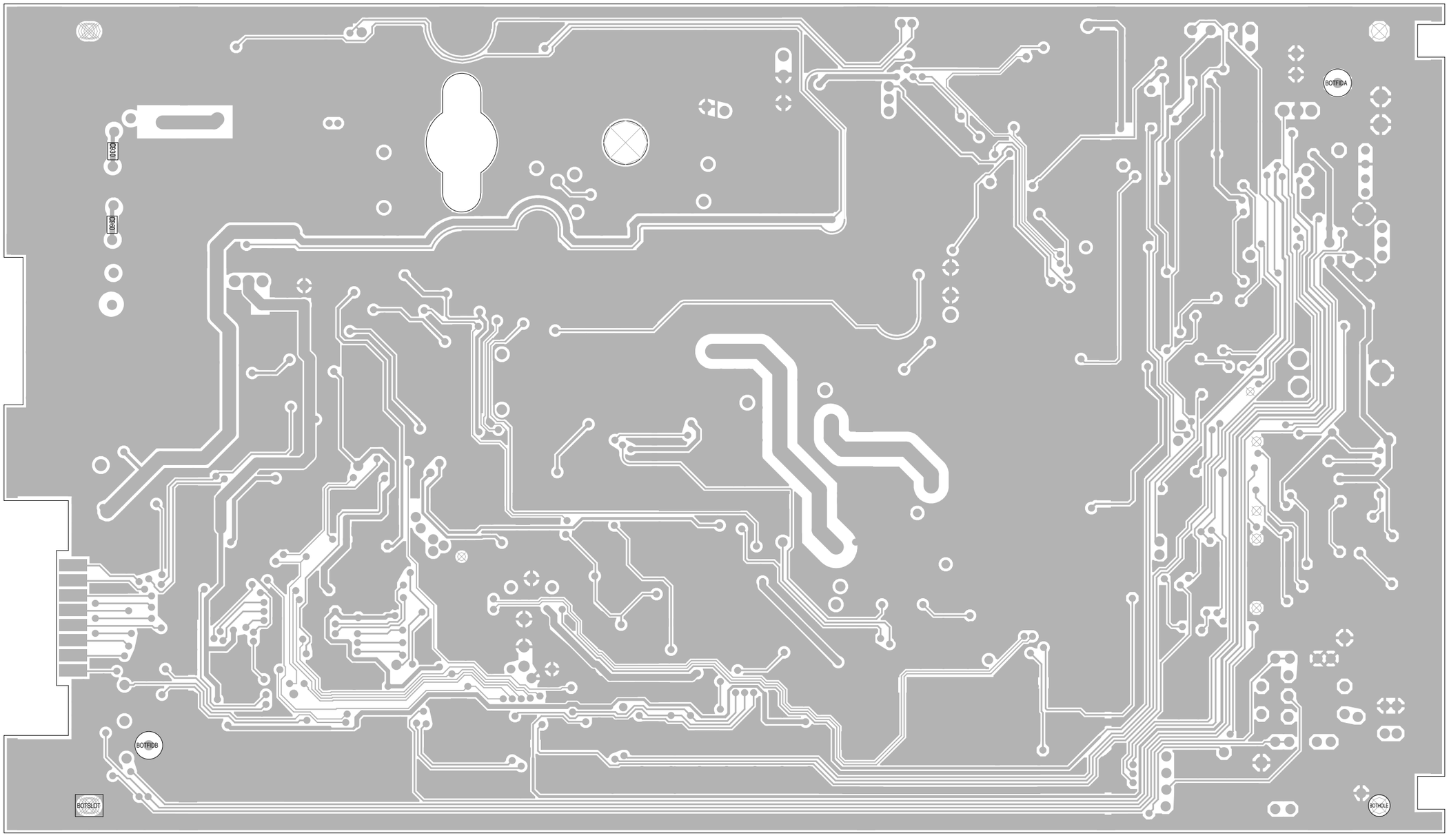
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T854-XX-7XXX PCB LAYOUT - TOP SIDE				

T854 PCB Layout – Top Side
220-01686-03

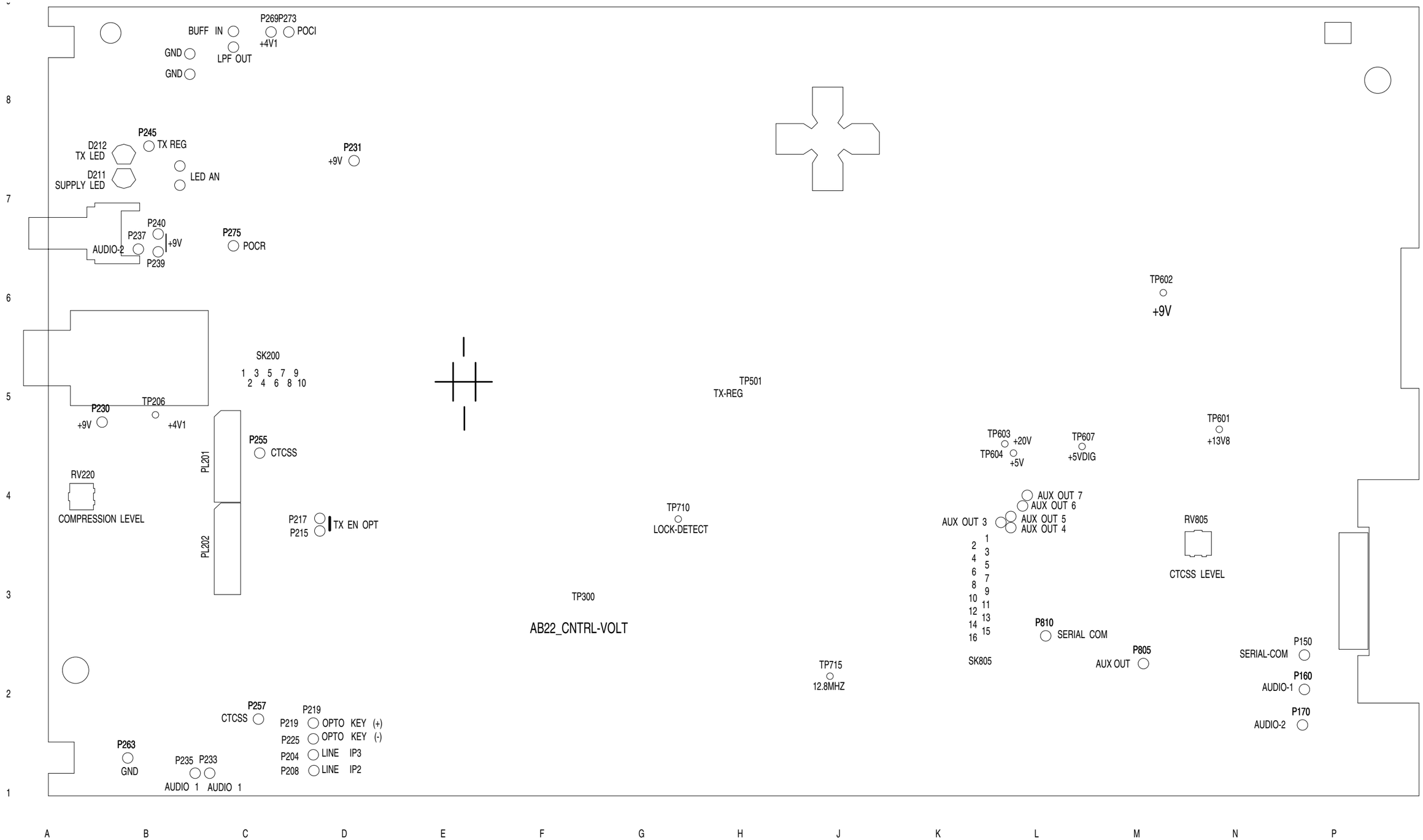
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T854-XX-7XXX PCB LAYOUT - BOTTOM SIDE				

T854 PCB Layout – Bottom Side
220-01686-03

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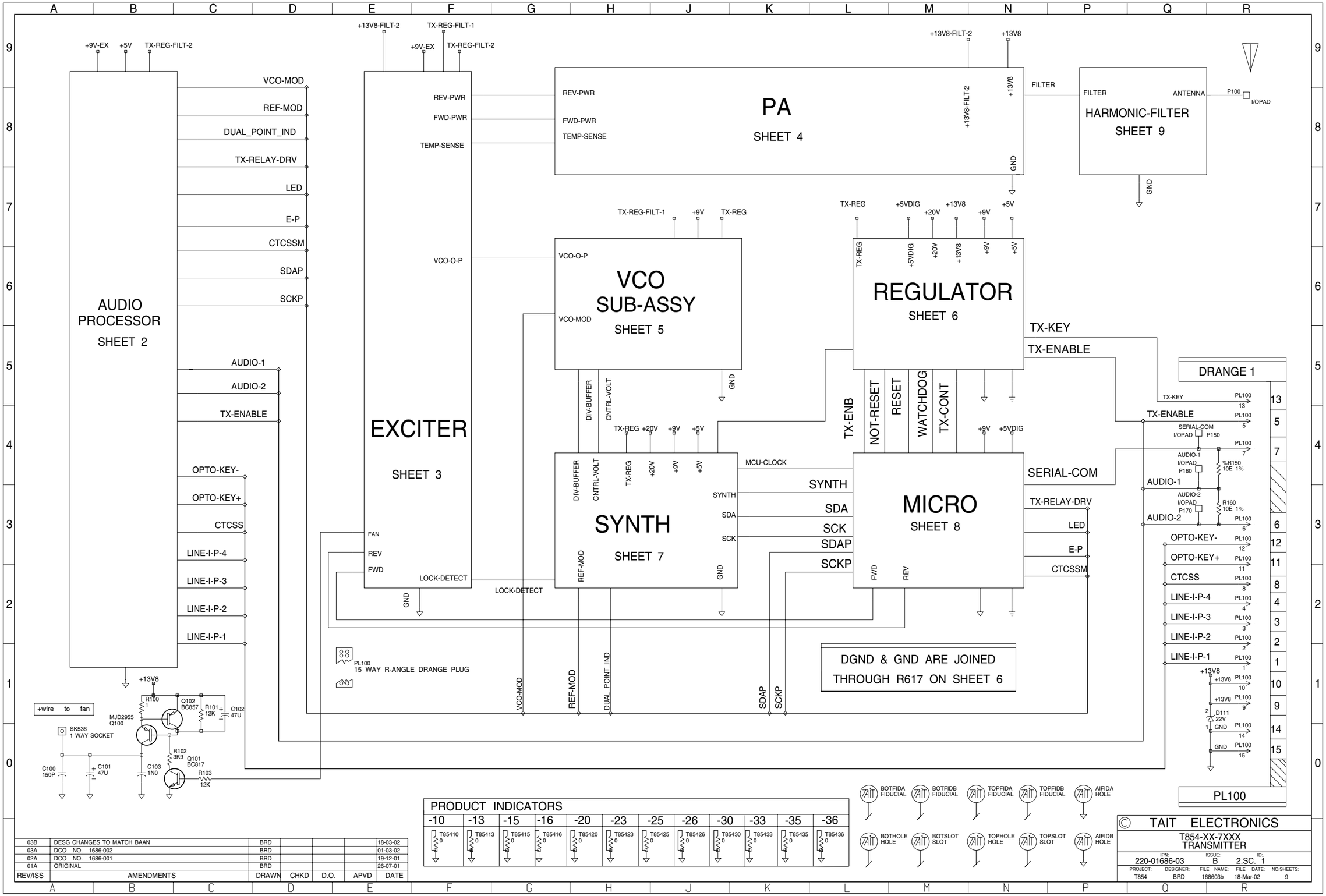
T854 Test Points & Options Connections – Top Side
220-01686-03

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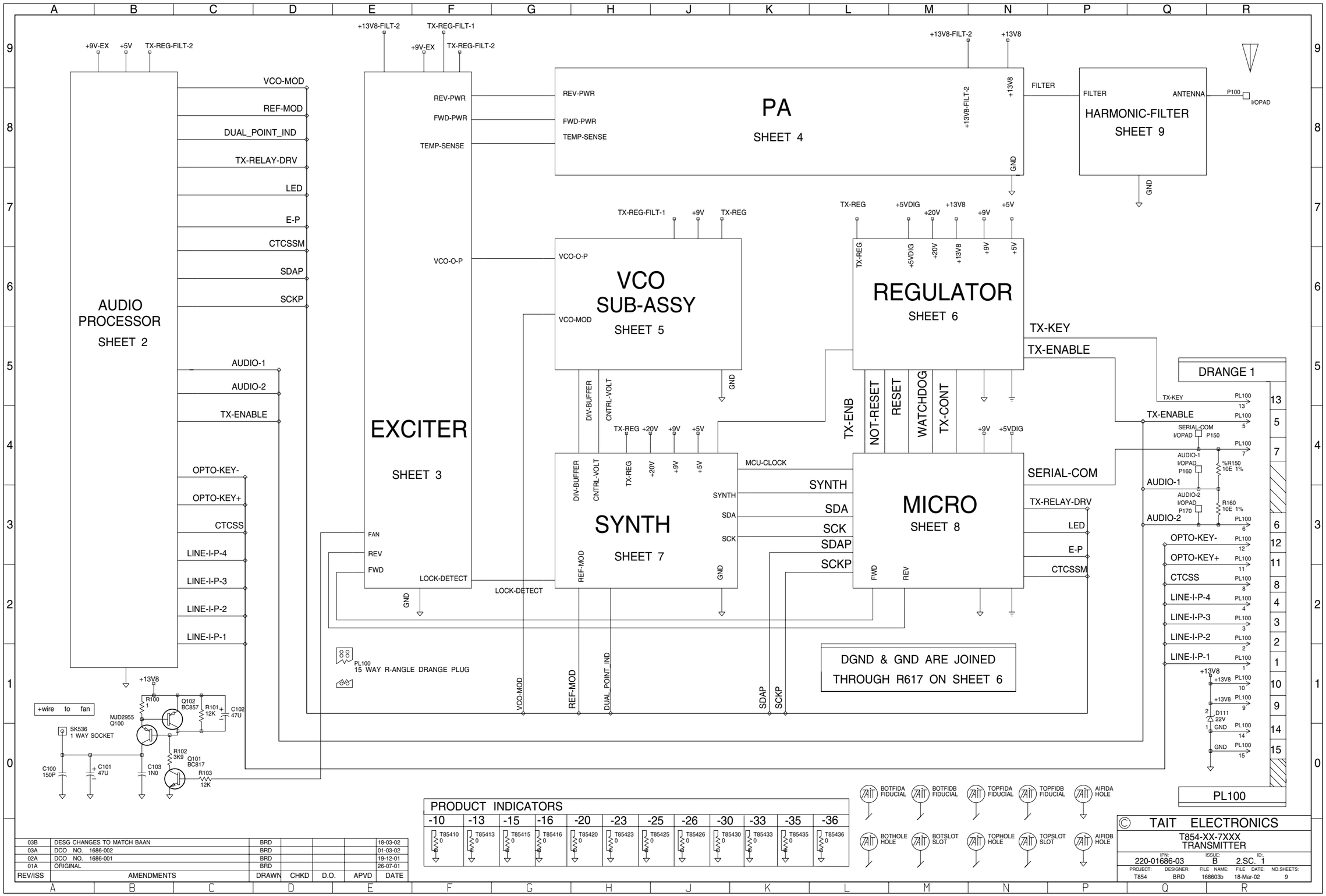
T854 Test Points & Options Connections – Bottom Side
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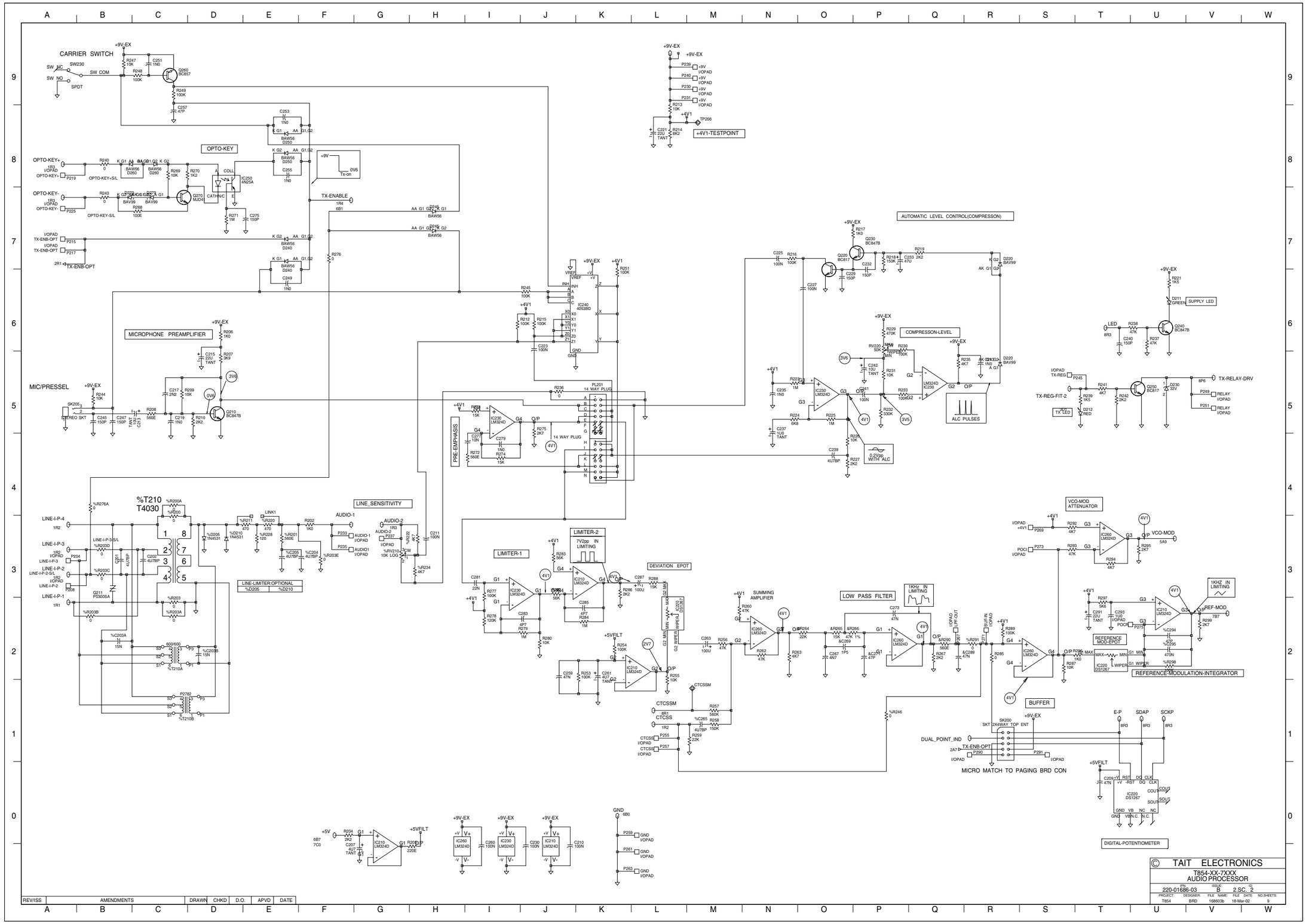
Sheet 1 – T854 Transmitter Overview
220-01686-03

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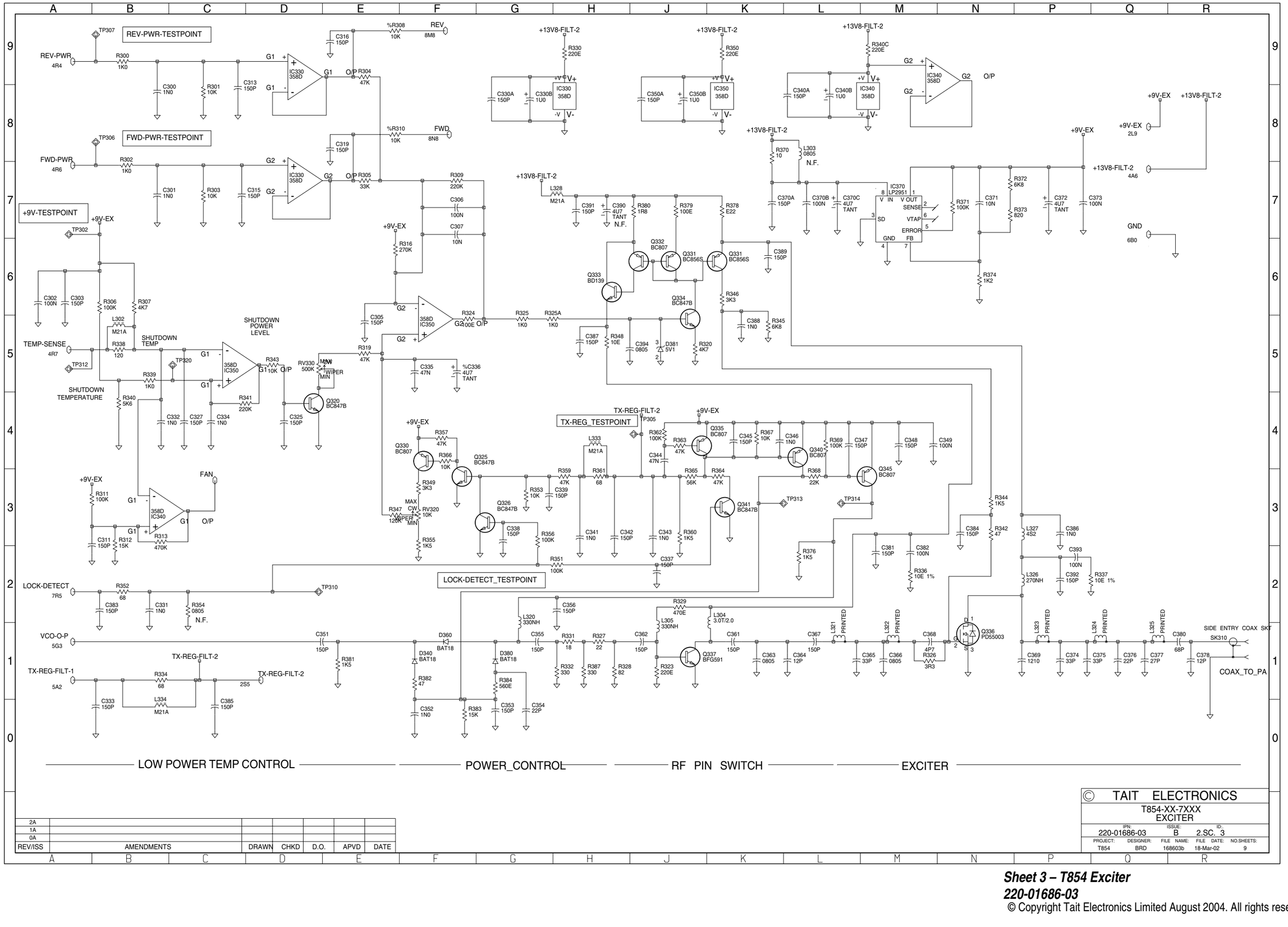
Sheet 1 – T854 Transmitter Overview
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Sheet 2 – T854 Audio Processor
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REV/ISS	AMENDMENTS	DRAWN	CHKD	D.O.	APVD	DATE
2A						
1A						
0A						

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T854-XX-7XXX
EXCITER

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Sheet 3 – T854 Exciter
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+13V8

+13V8
6B5

TEMP-SENSE

L481
330NH
R481
4K7
C481
150P
TEMP-SENSE
3A5

+13V8-FILT-2
3Q7

+13V8-FILTERED-2 SUPPLY

+13V8
L425
5.0T/4.0
L420
4S2-3T
+13V8-FILT-2
C418
100N
C419
100N
C420
150P
C421
100N

+13V8 TESTPOINT

TP401

TP402

FWD-PWR
3A7

L430
4S2
L435
1.5T/6.0
#R451
240E
#C439
150P
C430
1N0
C435
47U
L460
4S2
L465
10MM COIL
C450
100P
C455
4U7
L480
330NH
C485
150P
C490
150P
D420
RF2815
R460
4K7
R470
100E
R471
150P
R472
560E
R473
470
D420
RF2815

SK410
SIDE ENTRY COAX SKT
#R410
10E
#R430
10E
#R420
470E
#R440
470E
C405
12P
L405
1.5T/2.5
L410
1.5T/6.0
R450
30E
L415
4S2
#C410
39P
C415
33P
L418
PRINTED
Q410
SD1433
C438
68P
L440
PRINTED
L445
3.5T/3.0
L450
4S2
#C440
39P
#C445
33P
L455
PRINTED
Q420
SD1488
L470
PRINTED
L475
#556
C470
100P
#C460
27P
#C465
27P
C493
100P
#CV475
2/10P
#C480
4P7
R480
100E
COUPLER
FILTER
9B8
D440
RF2815
D440
RF2815
L485
330NH
REV-PWR
3A9
R490
4K7
C496
150P
C499
150P

POWER AMPLIFIER

DIRECTIONAL COUPLER

GND
6B0

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T854-XX-7XXX
PA

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Sheet 4 – T854 PA
220-01686-03

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VCO-MOD
2U3
CNTRL-VOLT
7R3
+9V
6B6
GND
6B0
TX-REG-FILT-1
3A1
TX-REG
6E8
7C0
DIV-BUFFER
7R1
VCO-O-P
3A1
+8V Tx-on
Tx-off
+9V Tx-on
Tx-off

R504 330
C503 4N7
Q505 BC847B
BAV70 D510
R501 10K
R502 10K
R503 5K6
R505 15K
R510 1K5
C504 150P
C505 47N
R514 33
SK501 1 WAY SOCKET
SK502 1 WAY SOCKET
SK503 1 WAY SOCKET
SK504 1 WAY SOCKET
SK505 1 WAY SOCKET
SK513 1 WAY SOCKET
SK522 1 WAY SOCKET
SK531 1 WAY SOCKET
SK532 1 WAY SOCKET
SK533 1 WAY SOCKET
SK534 1 WAY SOCKET
SK535 1 WAY SOCKET
C507 100N
R515 56E
C519 150P
Q520 BC807
C516 10N
C517 150P
L522 M21A
R540 2K2
C518 100N
#R518 18
#R517 330
#R519 330
C525 150P
R560 470
Q550 BC847B
8V4
C530 22U TANT
R555 4K7
Q540 BC807
L521 M21A
%R550 1K2
%R551 4K7
C535 100N
C536 100N
C537 150P
R523 120K
R525 47K
Q510 BC807
L520 M21A
C512 100N
C510 47N
R520 150E
C508 150P
C509 150P
C511 4N7
R530 22K
R535 10K
SL501 FAST-KEY-OPTION/B
R513 10K
C513 150P
C514 150P
Q530 BC807
C515 10N
R545 4K7

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T854-XX-7XXX
VCO
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PROJECT: T854 DESIGNER: BRD FILE NAME: 168603b FILE DATE: 18-Mar-02 NO.SHEETS: 9

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Sheet 5 – T854 VCO Section
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DGND 8A0
+9V
TX-CONT 8A4
R609 1K0
Q610 BC807
L601 M21A
C605 150P
C607 1N0
C608 1N0
+9V-Tx on / 0V
TX-REG 5A1 7C0
R613 560E
+9V 0V(Tx)

+5VDIG +5V +9V +13V8 +20V
+5VDIG 8A9
+5V 2F0 7C0
+9V 5A5 7B0 8B9
+13V8 1R1 1R1 4R8
+20V 7C0

PBRST 7A5 7A5 8A2
WATCHDOG 8R4
NOT-RESET 8R2
RESET 8A8
R651 0
R652 0
+5VDIG
IC650 DS1232 LOWPWRMON
ST PBRST RST TD RST TOL +V

+9V
R615 100E
C610A 10N
C610B 100U TANT
IC610 78L05 VIN VOUT GROUND
V IN V OUT N/C NC GND
C611A 100U TANT
C611B 10N
+5VDIG
+5VDIG TESTPOINT
TP607
R617 0
+5VDIG SUPPLY
DGND CONNECTS GND THROUGH R617

+13V8 TESTPOINT
TP601
+13V8
R637 22
R638 22
C630 100N
LM317MDT IC630 VREG VIN VOUT ADJ
R641 1K5
R645 470
+5V
TP604
+5V TESTPOINT
C631A 100N
C634 10U TANT
R649 4K7
C636 100N
358D IC640
+9V REGULATOR
+5V REGULATOR

+13V8
A G1 D610 BAV99
AK G1 G2 D610 BAV99
AK G1 G2 D610 BAV99 K G2
R625 1K0
R621 1
R619 1
C623 150P
Q620 BD242FP
R629 270
C638 150P
Q630 BSR30 O/P
R633 6K8
5V
R653 10K
+9V-TESTPOINT
TP602
+9V
C625 470U
C626 4N7
C628 1N0

+13V8
R640 10E 1%
IC640 358D +V V+ -V V-
C640 1N0
D645 33V

Tx-on
+5V
+1V3
Tx-off
Tx-off
+5V
R677 47K
TX-ENB 8A3
D635A BAT165

TX-KEY 1R5
TX-ENABLE 1R4 2F7
GND 1R0 1R0 2K0 3Q7 4R1 5A4 7A0 8A0 9B7
A G2 D620 BAV70
KK G1,G2 D620 BAV70
KK G1,G2 BAV70 D620 C655 1N0
A G1
+9V
R661 10K
R665 100K
R657 10K
R669 47K
R673 100K
G2 IC640 358D G2 O/P
A G1 KK G1,G2 BAV70 D630
A G2 KK G1,G2 BAV70 D630

+9V
R689 10E 1%
C684 10U TANT
C681 100N
240KHz 24vpp
+20V SUPPLY
C673 1N0
R685 15K
T610 680uH
Q670 BC857
C687 150P
C677 1U0 TANT
Q660 BC817
C693 10U TANT
C690 100N
A G2 KK G1,G2 BAV70 D640
A G1 KK G1,G2 BAV70 D640
R681 100E
+20V
+20V TESTPOINT TP605
C670 3U3 TANT
C665 10U TANT
C660 100N
R693 100K
R696 56K

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REGULATOR

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Sheet 6 – T854 Regulators
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PHASE-MODULATOR

LOCK-DETECT TESTPOINT

CHARGE-PUMP

LOOP-FILTER

DIVIDER BUFFER

SPARE GATES

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T854-XX-7XXX
SYNTHESISER

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PROJECT: T854 DESIGNER: BRD FILE NAME: 168603b FILE DATE: 18-Mar-02 NO.SHEETS: 9

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Sheet 7 – T854 Synthesiser
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CHANNEL SELECT TO MICRO BUS

+5VDIG 6B7 · +9V 6B6 · 0V · RESET 6B4

CH-SLCT-0 · CH-SLCT-1 · CH-SLCT-2 · CH-SLCT-3 · CH-SLCT-4 · CH-SLCT-5 · CH-SLCT-6 · CH-SLCT-7

SK810 80C51

RST · VCC · P1.7 · P1.6 · P1.5 · P1.4 · P1.3 · P1.2 · P1.1 · P1.0 · P3.7/RD · P3.6/WR · P3.5/T1 · P3.4/T0 · P3.3/INT1 · P3.2/INT0 · P3.1/TXD · P3.0/RXD · VSS · XTL1 · XTL2 · P0.7 · P0.6 · P0.5 · P0.4 · P0.3 · P0.2 · P0.1 · P0.0 · EA · ALE · PSEN · P2.7 · P2.6 · P2.5 · P2.4 · P2.3 · P2.2 · P2.1 · P2.0

C810 47N · C813 1N0

R824 2K2 P820 AUX-OUT-7 I/OPAD
R825 2K2 P825 AUX-OUT-6 I/OPAD
R826 2K2 P830 AUX-OUT-5 I/OPAD
R827 2K2 P835 AUX-OUT-4 I/OPAD
R828 2K2 P840 AUX-OUT-3 I/OPAD

WATCHDOG · SYNTH · SDA · SCK. · CTCSS_LSB · CTCSS_RX · CTCSS_MSB

R880 4K7 · VARIABLE · R881 4K7 · R853 4K7 · R854 4K7

IC820 24C16 (A0 A1 A2 GND WP SCL SDA NC +V)

SERIAL-COM 1R4 · R808 10E 1% · P810 SERIAL-COM-1 I/OPAD

Q820 BC817 · Q830 BC857 · Q840 BC857 · Q850 BC847B

R809 4K7 · R810 4K7 · R811 4K7 · R812 4K7 · R813 4K7 · R815 47K · C812 100P · R816 150K · R818 4K7 · R819 4K7

TX-CONT 6B8 · Q860 BC847B · R821 47K · R822 47K · SL810 MICRO-BYPASS

TX-ENB 6F2 · AUX_OUT I/OPAD · P805 · D810 BAT165 · R801 150K · R802 47K · Q810 BC847B

MCU-CLOCK 6B5 7A5 7A5 · 12.8MHz

GND DGND 6B9 6B0

CTCSS_DISABLE · SERIAL-COM-1 · EPOTS · TX_KEY_OUT · TX_KEY_IN · LED_FLASH · MCU-CLOCK

REV 3F9 · FWD 3F8

R840 2K2 · R841 2K2

CH-SLCT-0 R829 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-0 1
CH-SLCT-1 R830 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-1 3
CH-SLCT-2 R831 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-2 5
CH-SLCT-3 R832 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-3 7
CH-SLCT-4 R833 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-4 9
CH-SLCT-5 R835 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-5 11
CH-SLCT-6 R836 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-6 13
CH-SLCT-7 R837 2K2 SKT 16-WAY MICROMATCH SK805 CH-SLCT-7 6

+5VDIG SKT 16-WAY MICROMATCH SK805 +5VDIG 16

SKT 16-WAY MICROMATCH SK805 AUX-OUT-2 14
SKT 16-WAY MICROMATCH SK805 AUX-OUT-1 12
R842 2K2 SKT 16-WAY MICROMATCH SK805 AUX-OUT-0 10
R843 2K2 SKT 16-WAY MICROMATCH SK805 CTCSS-DISABLE 4
SKT 16-WAY MICROMATCH SK805 SERIAL-COM-1 8
TX-RELAY-DRV 2V5 · SKT 16-WAY MICROMATCH SK805 TX-RELAY-DRV 2
SKT 16-WAY MICROMATCH SK805 GND 15

MICROMATCH TO D-RANGE2 CONNECTIONS

MICROMATCH PIN	D-RANGE2 PIN
1	1
3	2
5	3
7	4
9	5
11	6
13	7
6	11
16	NC
14	15
12	14
10	13
4	10
8	12
2	9
15	8

R845 470 WATCH-DOG 6B5 · SYNTH 7A2 · SDA 7A2 · R847 470 SDAP 2U1 · R849 470 SCKP 2U1 · LED 2T6 · R850 470 E-P 2T1 · SCK · %R856 0805 · %R857 0 NOT-RESET 7A2

+5VDIG · R848 4K7 · R882 470 · C880 150P

+9V · R879 10K · C844 10N · C841 100U TANT · R877 4K7

IC830 LM324D (G2 G4 G1) · O/P R871 47K · R872 4K7 · O/P R873 33K · R874 4K7 · O/P R875 47K · R876 4K7

CTCSSMFREQUENCY (+5V / 0V) · CTCSSMFREQUENCY (+9V / 0V)

CTCSS LEVEL ADJUST · RV805 20K MAX WIPER MIN · R867 100K · R863 150K · R865 100K · R861 150K · R859 150K · C827 33P · C828 10N · C826 220P · C838 100U TANT · C823 22N · C824 47N · TANT AUT C822 · CTCSSM 2L1 · R855 4K7

IC830 LM324D (+V V+ -V V-) · C830 47N

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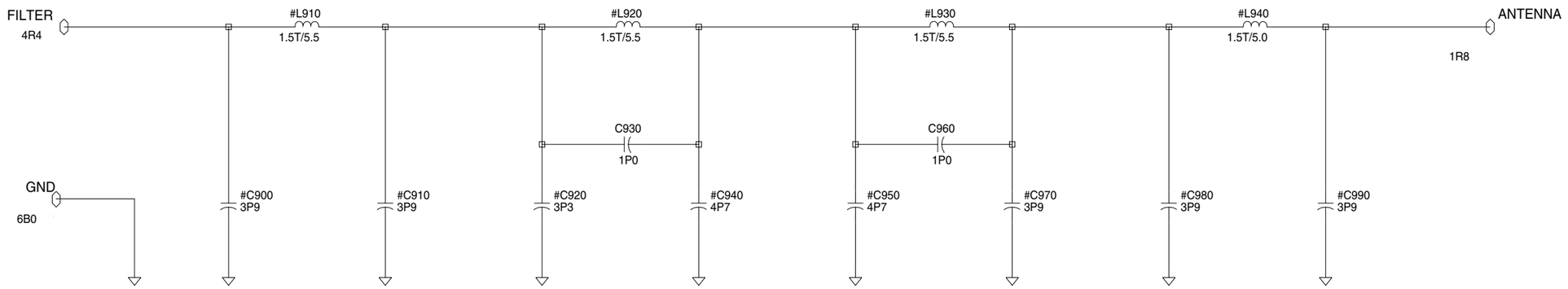
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Sheet 8 – T854 Microcontroller
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HARMONIC-FILTER

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HARMONIC-FILTER

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Sheet 9 – T854 Harmonic Filter
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