



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



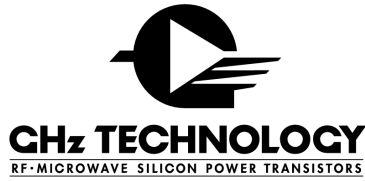
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TPR 1000

1000 Watts, 45 Volts, Pulsed
Avionics 1090 MHz

<p>GENERAL DESCRIPTION</p> <p>The TPR 1000 is a high power COMMON BASE bipolar transistor. It is designed for pulsed systems in the frequency band 1090 MHz. The device has gold thin-film metallization for proven highest MTF. The transistor includes input returns for fast rise time. Low thermal resistance package reduces junction temperature, extends life.</p>	<p>CASE OUTLINE</p> <p>55KV, Style 1</p> <p>Common Base</p>
<p>ABSOLUTE MAXIMUM RATINGS</p> <p>Maximum Power Dissipation @ 25°C² 2900 Watts</p> <p>Maximum Voltage and Current</p> <p>BVces Collector to Base Voltage 65 Volts</p> <p>BVebo Emitter to Base Voltage 3.5 Volts</p> <p>Ic Collector Current 80 Amps</p> <p>Maximum Temperatures</p> <p>Storage Temperature - 65 to + 200°C</p> <p>Operating Junction Temperature + 200°C</p>	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout	Power Out	F = 1090 MHz	1000			Watts
Pin	Power Input	Vcc = 45 Volts			250	Watts
Pg	Power Gain	PW = 10 μsec	6.0			dB
η_c	Collector Efficiency	DF = 1%		43		%
t_r	Rise Time				70	ns
VSWR¹	Load Mismatch Tolerance	F = 1030 MHz			9:1	

Bvebo^{3,4}	Emitter to Base Breakdown	Ie = 50mA	3.5			Volts
BVces⁴	Collector to Emitter Breakdown	Ic = 100mA	65			Volts
h_{FE}⁴	DC - Current Gain	Ic = 1000mA, Vce = 5 V	10			
θjc²	Thermal Resistance				0.06	°C/W

- Note 1: At rated output power and pulse conditions
- 2: At rated pulse conditions
- 3: Cannot measure due to input return
- 4: Per Side

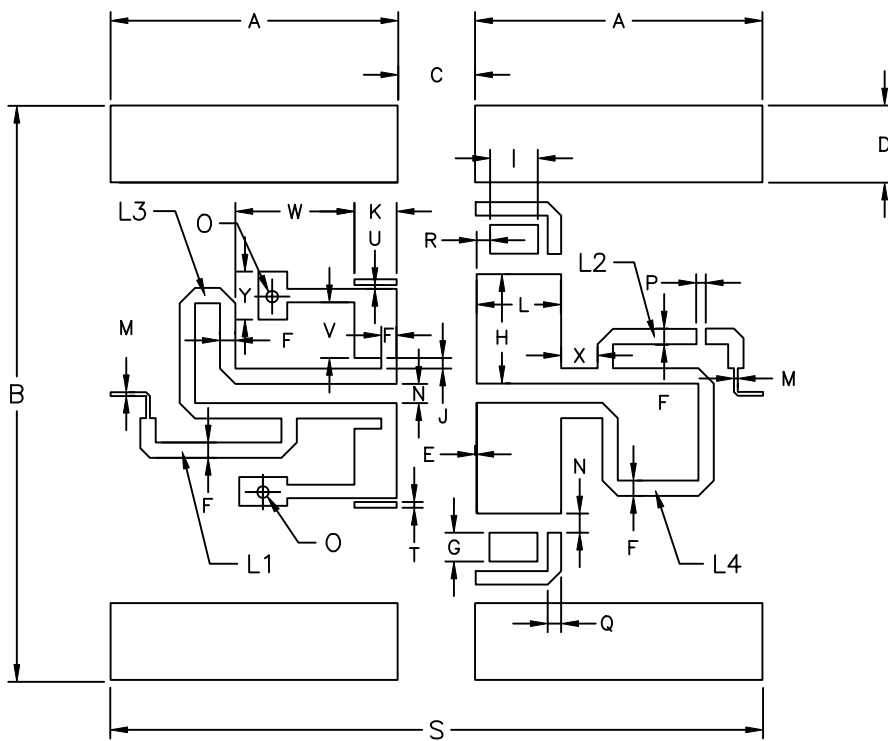
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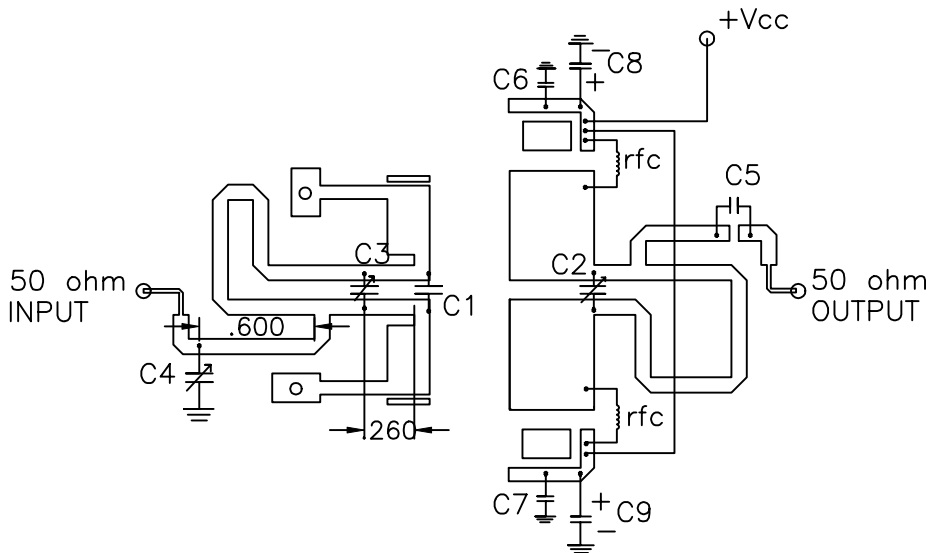
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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
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DIM	INCHES
A	1.500
B	3.000
C	.406
D	.4045
E	.004
F	.080
G	.150
H	.569
I	.254
J	.054
K	.220
L	.440
M	.019
N	.100
O	∅0.060
P	.050
Q	.074
R	.079
S	3.406
T	.030
U	.020
V	.290
W	0.615
X	0.175
Y	0.250
L1, L2	1.05
L3, L4	2.10



- C1=4.7pf ATC B
- C2=1-10pf Voltronics EJ10HV.
- C3,C4=.5-3.5pf Johnson
- C5=47pf ATC B
- C6,C7=82pf ATC B
- C8,C9=250MFD 60v

Board Type :
Ceramic
Er=10.2
Thk=.025inches.



CAGE
0PJR2

DWG NO.

TPR1000

REV -

SCALE

1/1

SHEET