

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









DME 500

500 Watts, 50 Volts, Pulsed Avionics 1025 - 1150 MHz

GENERAL DESCRIPTION

The DME 500 is a high power COMMON BASE bipolar transistor. It is designed for pulsed systems in the frequency band 1025-1150 MHz. The device has gold thin-film metallization for proven highest MTTF. The transistor includes input and output prematch for broadband capability. Low thermal resistance package reduces junction temperature, extends life.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C² 1700 Watts

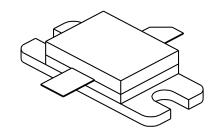
Maximum Voltage and Current

BVces Collector to Base Voltage 55 Volts
BVebo Emitter to Base Voltage 3.5 Volts
Ic Collector Current 40 Amps

Maximum Temperatures

Storage Temperature $-65 \text{ to} + 200^{\circ}\text{C}$ Operating Junction Temperature $+200^{\circ}\text{C}$

CASE OUTLINE 55KT, STYLE 1



ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg η _c VSWR	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 1025-1150 MHz Vcc = 50 Volts PW = 10 µsec DF = 1% F = 1090 MHz	500 6.0	6.5 35	125 10:1	Watts Watts dB %

Note 1: At rated output power and pulse conditions

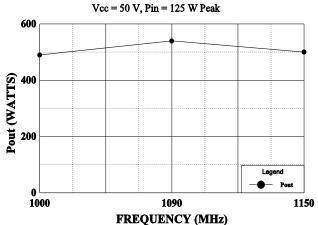
2: At rated pulse conditions

Initial Issue June, 1994

GHz TECHNOLOGY INC. RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE. GHZ RECOMMENDS THAT BEFORE THE PRODUCT(S) DESCRIBED HEREIN ARE WRITTEN INTO SPECIFICATIONS, OR USED IN CRITICAL APPLICATIONS, THAT THE PERFORMANCE CHARACTERISTICS BE VERIFIED BY CONTACTING THE FACTORY.

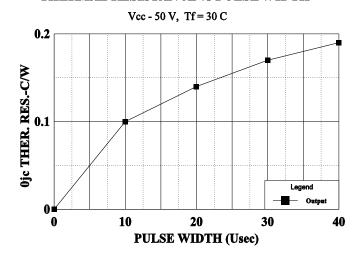


TOWEROUTE

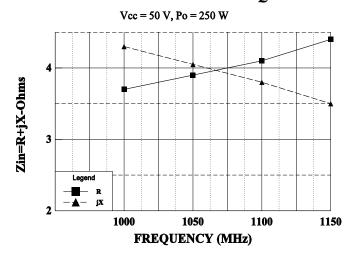


THERMAL RESISTANCE vs PULSE WIDTH

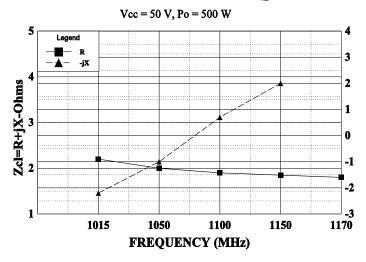
DME 500



SERIES INPUT IMPEDANCE vs FREQUENCY

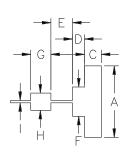


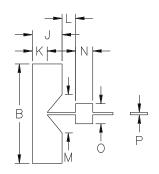
SERIES LOAD IMPEDANCE vs FREQUENCY





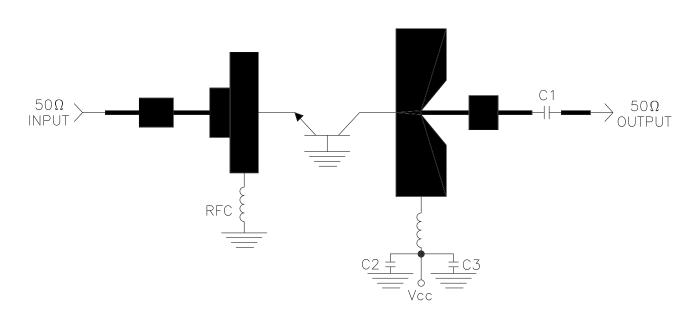
	REVISIONS			
ZON	E REV	DESCRIPTION	DATE	APPROVED





DIM	INCHES
Α	.745
В	1.035
С	.175
D	.125
Е	.225
F	.305
G	.210
Н	.180
	.025
J	.310
K	.155
L	.140
М	.400
N	.180
0	.210
Р	.025

1025/1150 MHz TEST AMPLIFIER



= Microstrip line on E_{10} , t=0.025" C1, C2 = 82PF chip capacitor C3 = 500μ FDc @ 75V capacitor



GHz TECHNOLOGY

CAGE DWG NO. DME 500 Α OPJR2 1/1SCALE SHEET