

DME 500

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

The DM designed device h transisto thermal	ERAL DESCRIPTION E 500 is a high power COMMON B I for pulsed systems in the frequency as gold thin-film metallization for pr r includes input and output prematch resistance package reduces junction to DLUTE MAXIMUM F	ASE bipolar transistor. It is band 1025-1150 MHz. The oven highest MTTF. The n for broadband capability. Low emperature, extends life.	CASE OUTLINE 55KT, STYLE 1
Maximu	m Power Dissipation @ 25°C ²	1700 Watts	
Maximu	Im Voltage and Current		
BVces	Collector to Base Voltage	55 Volts	
BVebo	Emitter to Base Voltage	3.5 Volts	
Ic	Collector Current	40 Amps	
Maxim	ım Temperatures	-	
Storage '	Temperature	- 65 to + 200°C	
Operatin	g Junction Temperature	+ 200°C	
- 1			

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	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 μ sec DF = 1% F = 1090 MHz	500 6.0	6.5 35	125 10:1	Watts Watts dB %

BVebo BVces h _{FE} θjc ²	Emitter to Base Breakdown Collector to Emitter Breakdown DC - Current Gain Thermal Resistance	Ie = 30 mA Ic = 40 mA Ic = 500 mA , Vce = 5 V	3.5 55 10		100 0.1	Volts Volts °C/W	
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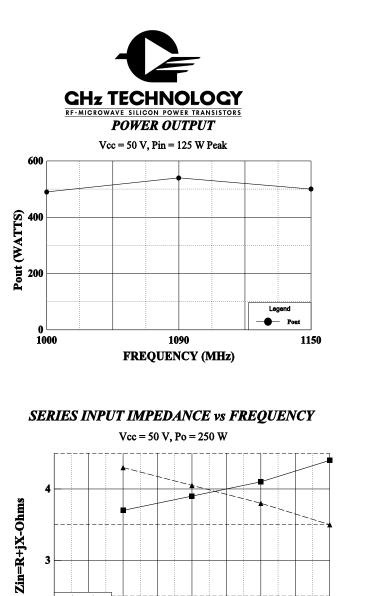
Note 1: At rated output power and pulse conditions

2: At rated pulse conditions

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1050

FREQUENCY (MHz)

1100

1150

3

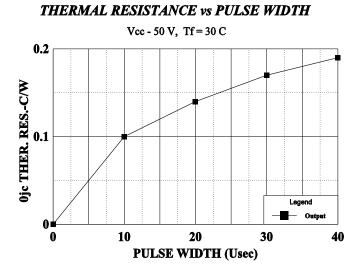
2

Legend

R Ă− jX

1000

DME 500



SERIES LOAD IMPEDANCE vs FREQUENCY

