

JTDB 25

25 Watts, 36 Volts, Pulsed Avionics 960 - 1215 MHz

GENERAL DESCRIPTIO The JTDB 25 is a high power COMMON B designed for pulsed systems in the frequency device has gold thin-film metallization and dif highest MTTF. The transistor includes input broadband capability. Low thermal resistanc temperature, extends life.	ASE bipolar transistor. It is band 960-1215 MHz. The ffused ballasting for proven and output prematch for e package reduces junction	CASE OUTLINE 55AW, STYLE 1
ABSOLUTE MAXIMUM	RATINGS	
Maximum Power Dissipation @ 25°C ²	97 Watts	
Mariana Valta an and Comment		
Maximum Voltage and Current	55 Volts	
BVces Collector to Base Voltage	00 1046	
BVebo Emitter to Base Voltage	3.5 Volts	
Ic Collector Current	5.0 Amps	
Maximum Temperatures		
Storage Temperature	- 65 to + 200°C	
Operating Junction Temperature	$+ 200^{\circ}C$	

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 = 960-1215 MHz Vcc = 36 Volts PW = 10 μ sec DF = 40% F = 1090 MHz	25 7.0	7.5 40	5.0 5:1	Watts Watts dB %

BVebo BVces h _{FE} θjc ²	Emitter to Base Breakdown Collector to Emitter Breakdown DC - Current Gain Thermal Resistance	Ie = 5 mA Ic = 10 mA Ic = 500 mA,Vce = 5 V	3.5 55 10		1.8	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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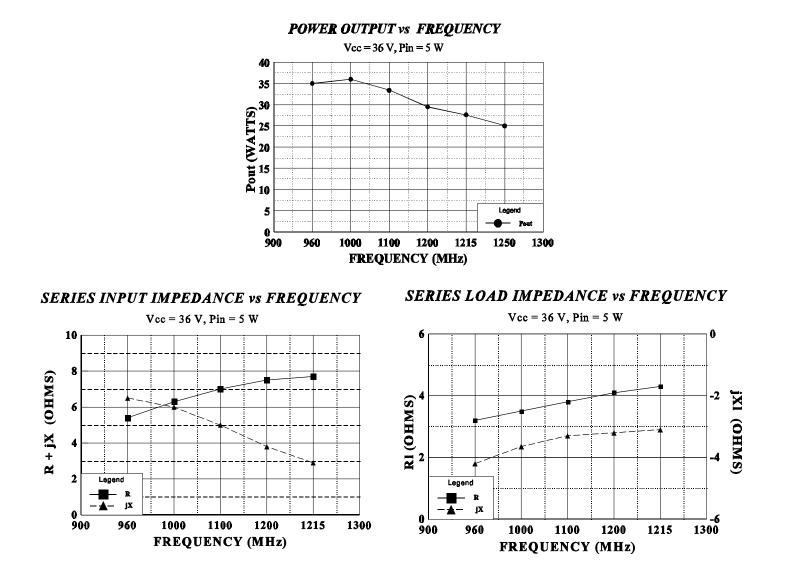
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GHz Technology Inc. 3000 Oakmead Village Drive, Santa Clara, CA 95051-0808 Tel. 408 / 986-8031 Fax 408 / 986-8120

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All Data shown is for operation under the rated pulse conditions.



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