

TPR 1000

1000 Watts, 45 Volts, Pulsed Avionics 1090 MHz

GENERAL DESCRIPTIC The TPR 1000 is a high power COMMON designed for pulsed systems in the frequence has gold thin-film metallization for proven includes input returns for fast rise time . Let reduces junction temperature, extends life.	BASE bipolar transistor. It is y band 1090 MHz. The device highest MTTF. The transistor	CASE OUTLINE 55KV, Style 1 Common Base
ABSOLUTE MAXIMUM	RATINGS	
ABSOLUTE MAXIMUM Maximum Power Dissipation @ 25°C ²	RATINGS 2900 Watts	
Maximum Power Dissipation @ 25°C ²		
Maximum Power Dissipation @ 25°C ² Maximum Voltage and Current	2900 Watts	
Maximum Power Dissipation @ 25°C ² Maximum Voltage and Current BVces Collector to Base Voltage	2900 Watts 65 Volts	
Maximum Power Dissipation @ 25°C ² Maximum Voltage and Current BVces Collector to Base Voltage BVebo Emitter to Base Voltage	2900 Watts 65 Volts 3.5 Volts	
Maximum Power Dissipation @ 25°C2Maximum Voltage and CurrentBVcesCollector to Base VoltageBVeboEmitter to Base VoltageIcCollector Current	2900 Watts 65 Volts 3.5 Volts	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η _c t _r VSWR ¹	Power Out Power Input Power Gain Collector Efficiency Rise Time Load Mismatch Tolerance	F = 1090 MHz Vcc = 45 Volts PW = 10 μ sec DF = 1% F = 1030 MHz	1000 6.0	43	250 70 9:1	Watts Watts dB % ns

Note 1: At rated output power and pulse conditions

- 2: At rated pulse conditions
- 3: Cannot measure due to input return
- 4: Per Side

Issue A June 1997

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