

TAN150

150 Watts, 50 Volts, Pulsed Avionics 960 - 1215 MHz

GENERAL DESCRIPTION The TAN150 is a high power COMMON BASE designed for pulsed systems in the frequency ba device has gold thin-film metallization and diffu highest MTTF. The transistor includes input an broadband capability. Low thermal resistance p temperature, extends life.	nd 960-1215 MHz. The sed ballasting for proven d output prematch for	CASE OUTLINE 55AW, STYLE 1
ABSOLUTE MAXIMUM RA	TINGS	
Maximum Power Dissipation @ 25°C ²	583 Watts	
Maximum Voltage and Current		
BVces Collector to Base Voltage	55 Volts	
BVebo Emitter to Base Voltage	3.5 Volts	
Ic Collector Current	15 Amps	
Maximum Temperatures		
Storage Temperature	- 65 to + 150°C	
Operating Junction Temperature	+ 200°C	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin	Power Out Power Input	F = 960-1215 MHz Vcc = 50 Volts	150		30	Watts Watts
Pg	Power Gain	$PW = 20 \ \mu sec$	7.0			dB
η _c VSWR	Collector Efficiency Load Mismatch Tolerance	DF = 5% F = 1090 MHz		38	10:1	%

BVebo BVces h _{FE} θjc ²	Emitter to Base Breakdown Collector to Emitter Breakdown DC - Current Gain Thermal Resistance	Ie = 10 mA Ic = 50 mA I c= 50 mA, Vce = 5 V	3.5 55 10		0.3	Volts Volts °C/W	
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Note 1: At rated output power and pulse conditions

2: At rated pulse conditions

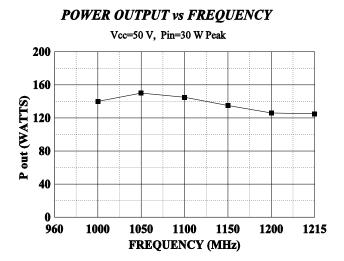
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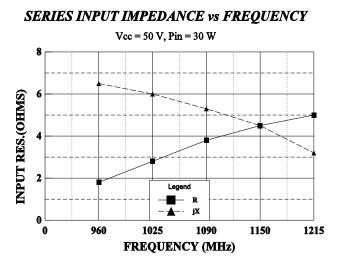
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SERIES LOAD IMPEDANCE vs FREQUENCY Vcc = 50 V, Pin = 30 W 8 LOAD RES. (OHMS) Legend R -jX 0 0 960 1025 1090 1150 1215 0 **FREQUENCY (MHz)**