

*TAN 300* 300 Watts, 50 Volts, Pulsed Avionics 960 - 1215 MHz

<b>GENERAL DESCRIPTION</b> The TAN 300 is a high power COMMON BA designed for pulsed systems in the frequency device has gold thin-film metallization and di highest MTTF. The transistor includes input broadband capability. Low thermal resistance temperature, extends life.	CASE OUTLINE 55KT Style 1	
ABSOLUTE MAXIMUM R		
<b>ADSOLUTE IVIA ATIVIDIVI R</b> Maximum Power Dissipation @ $25^{\circ}C^{2}$	ATINGS 1166 Watts	
Maximum Power Dissipation @ 25°C <sup>2</sup> Maximum Voltage and Current BVces Collector to Base Voltage	1166 Watts 65 Volts	
Maximum Power Dissipation @ 25°C2Maximum Voltage and CurrentBVcesCollector to Base VoltageBVeboEmitter to Base VoltageIcCollector Current	1166 Watts 65 Volts 2.0 Volts	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η <sub>c</sub> VSWR	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 960-1215 MHz Vcc = 50 Volts PW = 10 µsec DF = 10% F = 1090 MHz	300 6.6	45	60 10:1	Watts Watts dB %

BVces h <sub>FE</sub>		Ie = 25 mA Ic = 50 mA Ic = 1A, Vce = 5 V	2.0 65 10	.15		Volts Volts °C/W	
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Note 1: At rated output power and pulse conditions

2: At rated pulse conditions

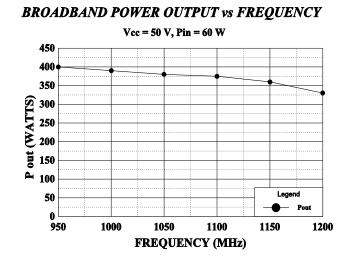
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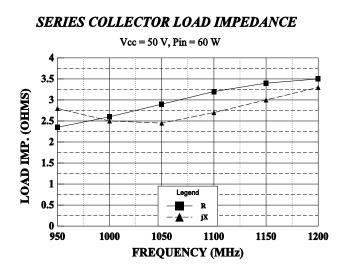
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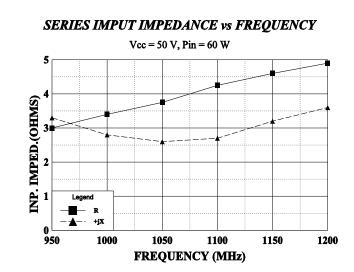
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