

## 1719 - 20

20 Watt - 28 Volts, Class C Microwave 1700 - 1900 MHz

<b>GENERAL DESCRIPTION</b> The 1719-20 is a COMMON BASE transistor of Class C, RF output power over the band 170 designed for Microwave Broadband Class C at Input and Output prematching and utilizes Gol ballasting to provide high reliability and supre uses a fully hermetic High Temperature Solder	CASE OUTLINE 55AW, STYLE 1	
ABSOLUTE MAXIMUM RATI	NGS	
Maximum Power Dissipation @ 25°C	67 Watts	
Maximum Voltage and Current		
BVces Collector to Emitter Voltage	50 Volts	
BVebo Emitter to Base Voltage	3.5 Volts	
Ic Collector Current	6.0 A	
Maximum Temperatures		
Storage Temperature	- 65 to + 200°C	
Operating Junction Temperature	+ 200°C	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η <sub>c</sub> VSWR <sub>1</sub>	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 1900  MHz Vcb = 28 Volts Pin = 5.0 Watts As Above F = 1.7 GHz, Pin = 5.0	20 6.0	6.5 38	5.0 4:1	Watt Watt dB %

BVces BVebo Icbo h <sub>FE</sub> Cob θjc	Collector to Emitter Breakdown Emitter to Base Breakdown Collector to Base Current Current Gain Output Capacitance * Thermal Resistance	Ic = 10 mA Ie = 10 mA Vcb = 28 Volts Vce = 5 V, Ic = 1.2 A F = 1 MHz, Vcb = 28 V	50 3.5 20		4.0 2.6	Volts Volts mA pF °C/W	
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\* Not measureable due to Output Match

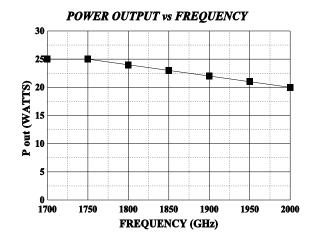
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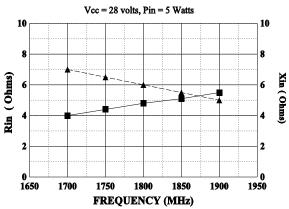
GHz Technology Inc. 3000 Oakmead Village Drive, Santa Clara, CA 95051-0808 Tel. 408 / 986-8031 Fax 408 / 986-8120



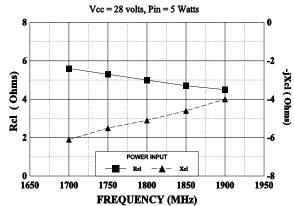
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SERIES INPUT IMPEDANCE VS FREQUENCY



SERIES LOAD IMPEDANCE VS FREQUENCY



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