

## 1720 - 20

20 Watt - 28 Volts, Class C Microwave 1700 - 2000 MHz

<b>GENERAL DESCRIPTION</b> The 1720-20 is a COMMON BASE transistor of Class C, RF output power over the band 170 designed for Microwave Broadband Class C ar Input and Output prematching and utilizes Gol ballasting to provide high reliability and supre- uses a fully hermetic High Temperature Solder	CASE OUTLINE 55AW, STYLE1	
ABSOLUTE MAXIMUM RATI	NGS	$\sim$
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 = 2.0  GHz Vcb = 28 Volts Pin = 5.0 Watts As Above F = 2.0 GHz, Pin = 5.0	20 6.0	6.5 32	5.0 10:1	Watt Watt dB %

BVces BVcbo BVebo Icbo h <sub>FE</sub> Cob	Collector to Emitter Breakdown Collector to Base Breakdown Emitter to Base Breakdown Collector to Base Current Current Gain	Ic = 10 mA Ic = 10 mA Ie = 1.0 mA Vcb = 28 Volts Vce = 5 V, Ic = 1.2 A F = 1 MHz, Vcb = 28 V	50 3.5 10	4.0	Volts Volts Volts µA pF
θjc	Output Capacitance Thermal Resistance			2.6	°C/W

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