



2005

5.0 Watt - 28 Volts, Class C Microwave 2000 MHz

The 2005 C, RF or are used	CRAL DESCRIPTION 5 is a COMMON BASE transistor cap atput power at 2000 MHz. Gold meta to provide high reliability and supren lly hermetic High Temperature Solde	CASE OUTLINE 55BT-1, Style 1	
ABSO	LUTE MAXIMUM RATI	NGS	\sim
Maximum Power Dissipation @ 25°C		20 Watts	
Maximu	m Voltage and Current		
BVces	Collector to Emitter Voltage	50 Volts	
BVebo	Emitter to Base Voltage	3.5 Volts	
Ic	Collector Current	1.0 A	
Maximu	m 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 _c VSWR ₁	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 2 GHz Vcb = 28 Volts Po = 5.0 Watts As Above F = 2 GHz, Po = 5 W	5.0 8.0	8.5 40	0.8 30:1	Watt Watt dB %

BVces BVcbo BVebo Icbo h _{FE} Cob	Collector to Emitter Breakdown Collector to Base Breakdown Emitter to Base Breakdown Collector to Base Current Current Gain Output Capacitance	Ic = 20 mA Ic = 2 mA Ie = 2.0 mA Vcb = 28 Volts Vce = 5 V, Ic = 200 mA F = 1 MHz, Vcb = 28 V	50 45 3.5 20	7.5	1.0	Volts Volts MA pF
Соб Өјс	Thermal Resistance	F = I MHz, Vcb = 28 V		7.5	8.5	°C/W

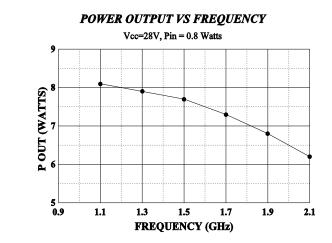
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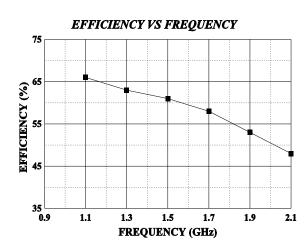
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GHz Technology Inc. 3000 Oakmead Village Drive, Santa Clara, CA 95051-0808 Tel. 408 / 986-8031 Fax 408 / 986-8120



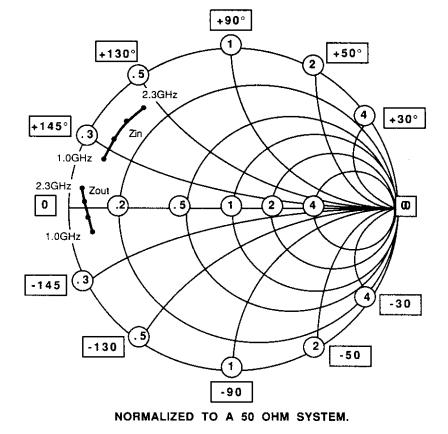






POWER OUTPUT VS POWER INPUT Vcc=28V 7 -6 P OUT (WATTS) Le 1.0 GHz ÷ 1.5 GHz 2.0 GHz 2.3 GHz ▲ + ◆ 1 0 0 150 200 250 300 350 400 450 550 650 750 850 POWER INPUT (mW)

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NORMALIZED IMPEDANCE AND ADMITTANCE COORDINATES



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