

2307

7.0 Watts - 20 Volts, Class C Microwave 2300 MHz

The 2307 C, RF or are used	CRAL DESCRIPTION 7 is a COMMON BASE transistor cap utput power at 2300 MHz. Gold meta to provide high reliability and supren lly hermetic High Temperature Solde	CASE OUTLINE 55 BT- Style 1	
ABSO	LUTE MAXIMUM RATI	NGS	
Maximu	m Power Dissipation @ 25°C	20.5 Watts	
Maximu	m Voltage and Current		
BVces	Collector to Emitter Voltage	42 Volts	
BVebo	Emitter to Base Voltage	3.5 Volts	
Ic	Collector Current	1.0 A	\sim
Maximu	m Temperatures		
Storage 7	Femperature	- 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 = 2.3 GHz Vcb = 20 Volts Po = 7 Watts As Above F = 2.3 GHz, Po = 7 W	7.0 8.0	40	1.1 30:1	Watt Watt dB %

BVces BVebo Icbo	Collector to Emitter Breakdown Emitter to Base Breakdown Collector to Base Current	Ic = 50 mA Ie = 5.0 mA Vcb = 22 Volts	42 3.5		2.5	Volts Volts mA
h _{FE} Cob θjc	Current Gain Output Capacitance Thermal Resistance	Vce = 5 V, Ic = 500 mA F = 1.0 MHz, Vcb = 22 V	10	10	8.5	pF °C/W

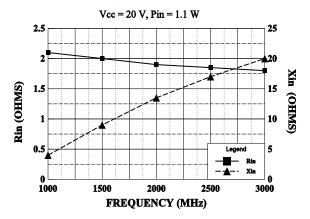
Issue August 1996

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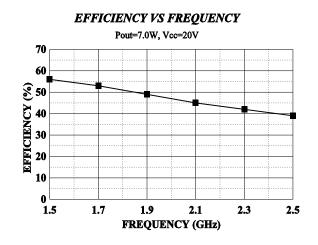
INPUT IMPEDANCE



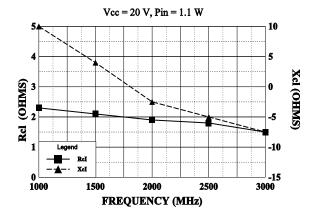


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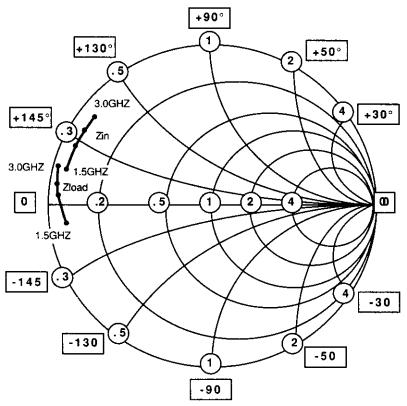
LOAD IMPEDANCE





2307

NORMALIZED IMPEDANCE AND ADMITTANCE COORDINATES



NORMALIZED TO A 50 OHM SYSTEM.

FREQUENCY MHz	Zin R JX		FREQUENCY MHz	Zload R JX		
1500	2	8	1500	2.1	5	
2000	1.9	14	2000	1.9	- 3	
2300	1.85	17	2300	1.8	- 5	
3000	1.8	20	3000	1.5	-7.5	

