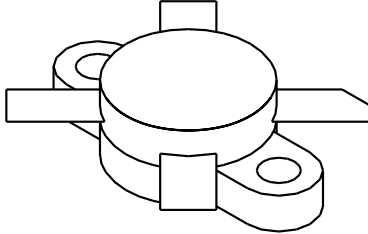


S200 - 50
200 Watts, 50 Volts, Class AB
Milcom 1.5 - 30 MHz

<p>GENERAL DESCRIPTION The S200-50 is a COMMON EMITTER, HF, SSB device intended for operation from a 50 Volts supply. It may be operated in Class A, AB or C. The device exhibits excellent linearity and ruggedness.</p>	<p>CASE OUTLINE 55HX, Style 2</p> 
<p>ABSOLUTE MAXIMUM RATINGS Maximum Power Dissipation @ 25°C 320 Watts</p> <p>Maximum Voltage and Current BVces Collector to Emitter Voltage 100 Volts BVebo Emitter to Base Voltage 4.0 Volts Ic Collector Current 30 A</p> <p>Maximum Temperatures Storage Temperature - 65 to +150°C Operating Junction Temperature +150°C</p>	

ELECTRICAL CHARACTERISTICS @ 25 °C

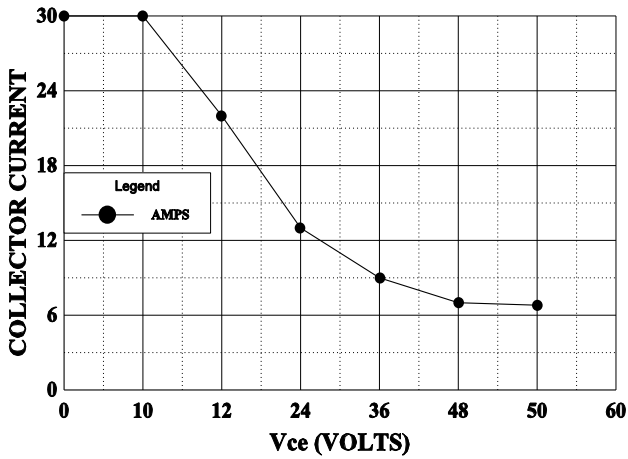
SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout	Power Output	F = 30 MHz	200			Watts
Pin	Power Input	Vcc = 50 Volts			12	Watts
Pg	Power Gain		12	14.5		dB
ηc	Efficiency			60		%
VSWR	Load Mismatch Tolerance				30:1	

BVebo	Emitter to Base Breakdown	Ie = 20 mA	4.0			Volts
BVces	Collector to Emitter	Ic = 100 mA	110			Volts
BVceo	Breakdown	Ie = 200 mA	70			Volts
Cob	Collector to Emitter	Vcb = 50V, F = 1 MHz				pF
hFE	Breakdown	Vce = 5 V, Ic = 1 A	10			°C/W
θjc	Output Capacitance			300	.55	
	DC - Current Gain					
	Thermal Resistance					

Initial Issue June, 1994

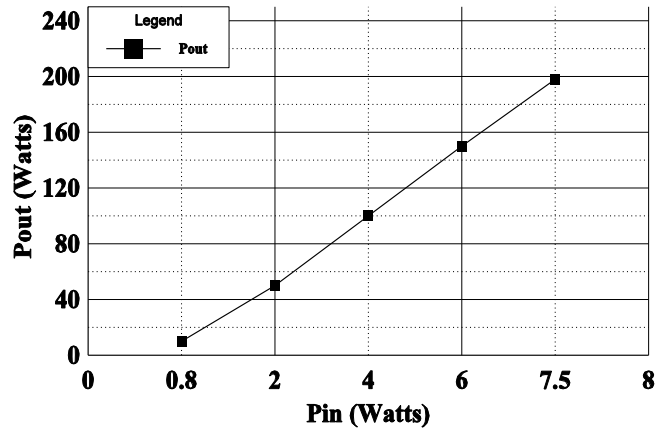
GHz TECHNOLOGY INC. RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE. GHz RECOMMENDS THAT BEFORE THE PRODUCT(S) DESCRIBED HEREIN ARE WRITTEN INTO SPECIFICATIONS, OR USED IN CRITICAL APPLICATIONS, THAT THE PERFORMANCE CHARACTERISTICS BE VERIFIED BY CONTACTING THE FACTORY.

DC SAFE OPERATING AREA

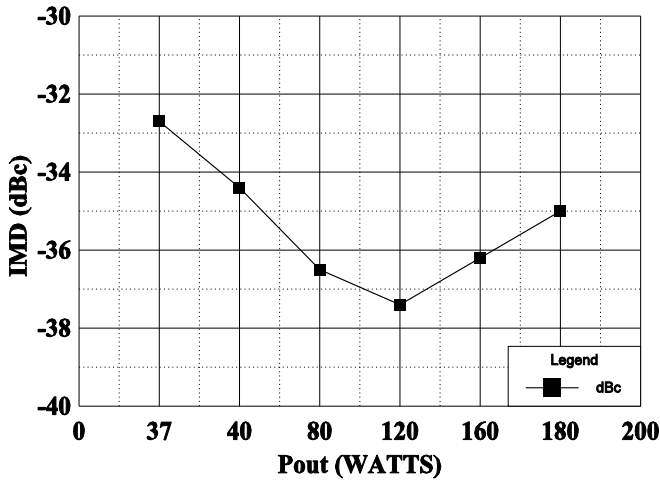


POWER OUTPUT vs POWER INPUT

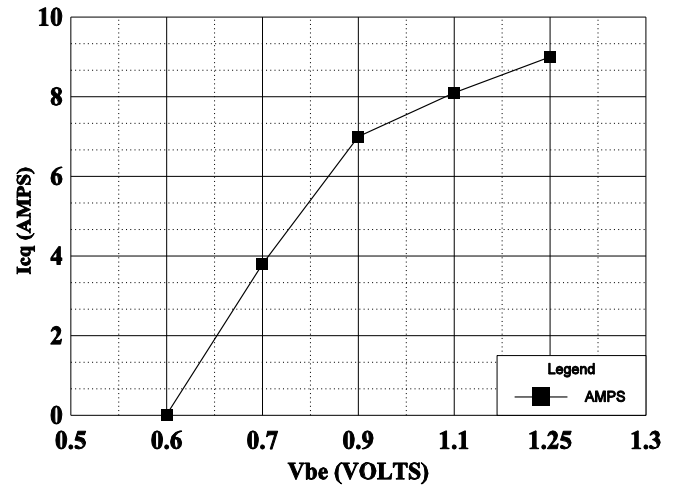
Vcc - 50V, Frequency 30MHz



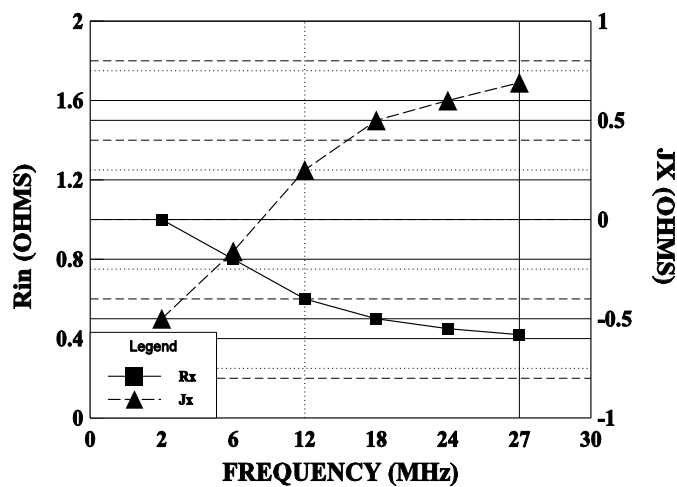
IMD vs Pout



Icq vs Vbe

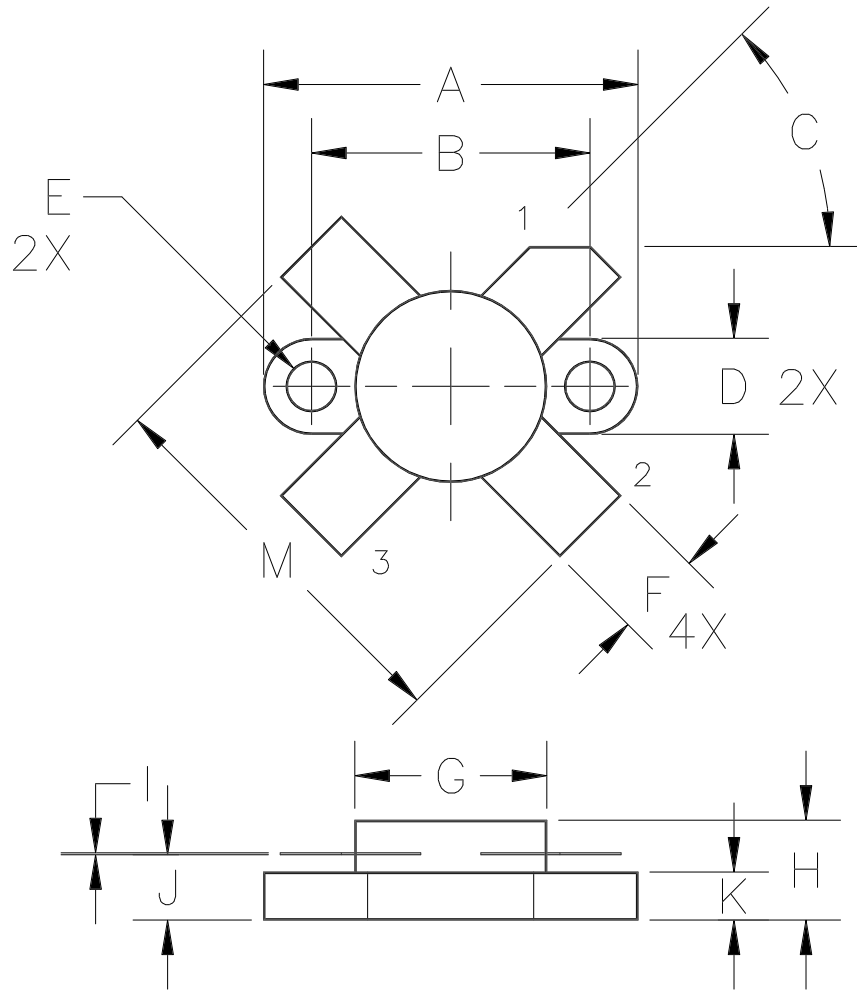


Zin vs FREQUENCY



REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
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DIM	MILLIMETER	TOL	INCHES	TOL
A	24.76	.13	.975	.005
B	18.42	.13	.725	.005
C	45°	5°	45°	5°
D	6.35	.13	.250	.005
E	3.17 DIA	.13	.125 DIA	.005
F	5.71	.13	.225	.005
G	12.70	.13	.500 DIA	.005
H	6.60	REF	.260	REF
I	0.13	.02	.005	.001
J	4.32	.18	.170	.007
K	3.17	.25	.125	.010
M	26.16	.25	1.030	.010

STYLE 1:

PIN1 = COLLECTOR
 2 = BASE (2X)
 3 = EMITTER

STYLE 2:

PIN1 = COLLECTOR
 2 = EMITTER (2X)
 3 = BASE

