

查询"2224-12L"供应商

**2224-12L**
12 Watts, 22 Volts, Class C
Microwave 2200 - 2400 MHz
GENERAL DESCRIPTION

The 2224-12L is a Common Base transistor capable of providing 12 Watts Class C, RF Output Power over the band 2200-2400 MHz. The transistor includes double input and output prematching for full broadband capability. Gold Metalization and diffused ballasting are used to provide high reliability and supreme ruggedness.

ABSOLUTE MAXIMUM RATINGS**Maximum Power Dissipation @ 25°C**

44 Watts

Maximum Voltage and CurrentCollector to Emitter Voltage (BV_{CES})

45 V

Emitter to Base Voltage (BV_{EBO})

3

VCollector Current (I_c)

3.0 Amps

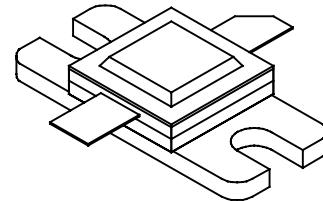
Maximum Temperatures

Storage Temperature

-40 to +200 °C

Operating Junction Temperature

+200 °C

CASE OUTLINE
55AW Style 1
COMMON BASE
**ELECTRICAL CHARACTERISTICS @ 25°C**

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
P _{out}	Power Out	F = 2200-2400 MHz V _{CC} = 22 Volts	12			W
P _{in}	Power Input				2.25	W
P _g	Power Gain		7.5			dB
η _c	Collector Efficiency			42		%
VSWR	Load Mismatch Tolerance		9:1			

FUNCTIONAL CHARACTERISTICS @ 25°C

BV _{CES}	Collector to Base Breakdown	I _c = 50 mA	45			V
BV _{EBO}	Emitter to Base Breakdown	I _e = 10 mA	3.0			V
h _{FE}	DC - Current Gain	V _{ce} = 5V, I _c = 1A	15		100	
C _{OB}	Output Capacitance*	V _{cb} = 28v, F = 1MHz				
θ _{jc}	Thermal Resistance	T _c = 25°C			4.0	°C/W

*Not measureable due to internal prematch network



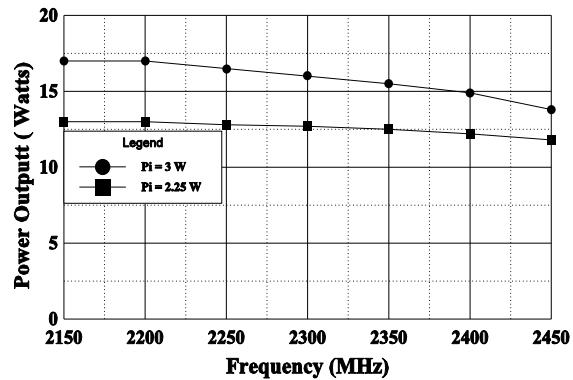
GHz TECHNOLOGY
RF·MICROWAVE SILICON POWER TRANSISTORS

Typical Performance

2224-12L

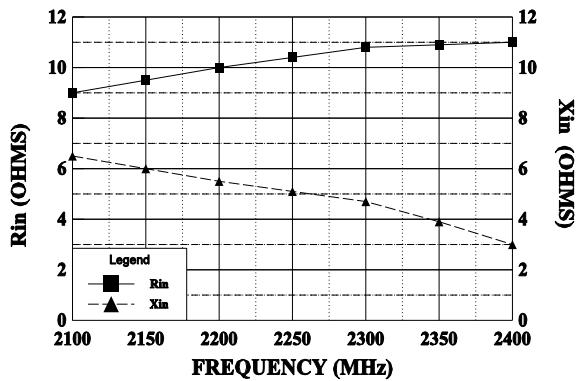
BROADBAND POWER OUTPUT (Typical)

V_{cc} = 22 Volts



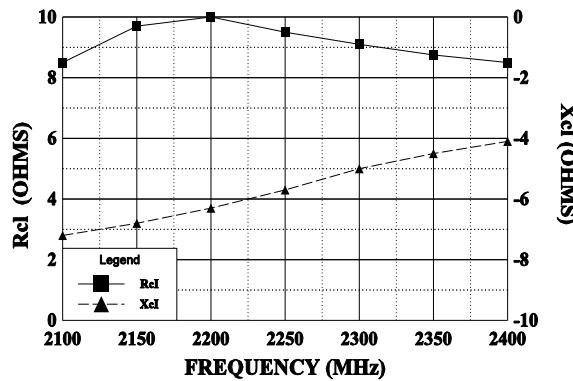
INPUT IMPEDANCE

V_{cc} = 22V, Pin = 2.4 W



COLLECTOR LOAD IMPEDANCE

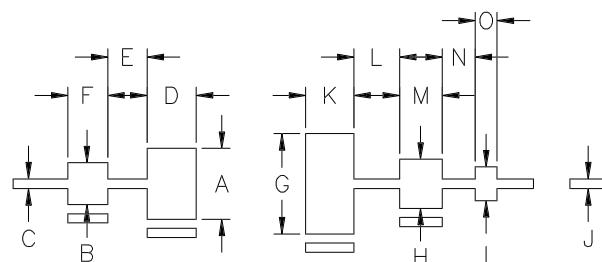
V_{cc} = 22 V, Pin = 2.4 W



August 1996

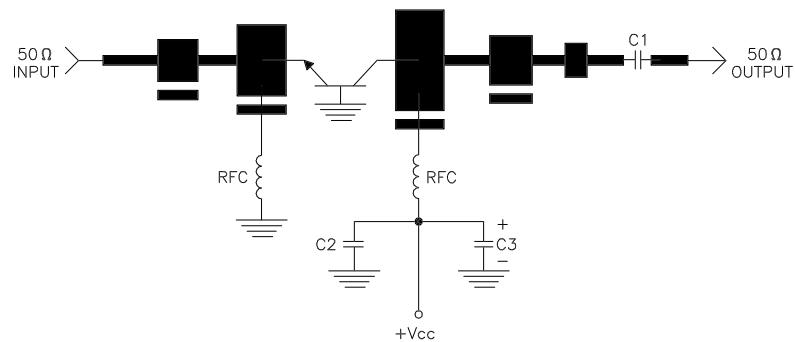
ZONE		REV	DESCRIPTION	DATE	APPROVED
REVISIONS					

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DIM	INCHES
A	.390
B	.230
C	.054
D	.270
E	.215
F	.220
G	.550
H	.270
I	.185
J	.054
K	.265
L	.250
M	.235
N	.180
O	.120

2224-12L TEST CIRCUIT



DIELECTRIC = 20 MIL THICK TFE Er = 2.55
 C1, C2 = 62pF CHIP ATC "B"
 C3 = 10 MFD @ 35V
 RFC = 4 turns #22 wire 1/16" I.D.

 CHz TECHNOLOGY	CAGE	DWG NO.	2224-12L	REV
	OPJR2	2224-12L	1/1	A
	SCALE	1/1	SHEET	