

2324-12L

12 Watts - 20 Volts, Class C Microwave 2300 - 2400 MHz

GENERAL DESCRIPTION

The 2324-12L is a COMMON BASE transistor capable of providing 12 Watts of Class C, RF output power over the band 2300-2400 MHz. This transistor is specifically designed for Microwave Broadband Class C amplifier applications. It includes input and output pre matching and utilizes gold metalization and diffused ballasting to provide high reliability and supreme ruggedness. The transistor uses a fully hermetic High Temperature Solder Sealed package.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 44 Watts

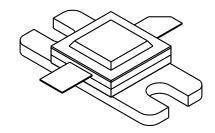
Maximum Voltage and Current

BVces Collector to Emitter Voltage 40 Volts
BVebo Emitter to Base Voltage 3.5 Volts
Ic Collector Current 3.0 Amps

Maximum Temperatures

Storage Temperature $- 65 \text{ to} + 200 ^{\circ}\text{C}$ Operating Junction Temperature $+ 200 ^{\circ}\text{C}$

CASE OUTLINE 55AW, STYLE 1



ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg ηc VSWR	Power Out Power Input Power Gain Efficiency Load Mismatch Tolerance	F = 2.3 - 2.4 GHz Vcc = 20 Volts Po = 12 Watts As Above F=2.3 GHz, Pin =2.5W	12 6.8	40	2.5	Watts Watts dB %

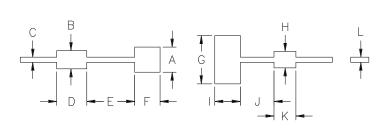
BVebo BVces	Emitter to Base Breakdown Collector to Emitter Breakdown	Ie= 10 mA Ic = 50mA	3.5 45		Volts Volts
H _{fe} Cob	DC Current Gain Output Capacitance*	Vce=5V, Ic=1A F=1 MHz, Vcb=24V	10		, 0145
θјс	Thermal Resistance			4.0	°C/W

^{*}Not measureable due to internal prematch network

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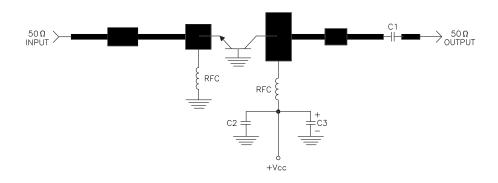
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DIM	INCHES
Α	.275
В	.200
С	.058
D	.330
Ε	.525
F	.280
G	.530
Н	.180
1	.280
J	.370
K	.240
L	.056

2324-12L TEST CIRCUIT



MATERIAL: .020" THICK TFE, Er = 2.55 C1, C2 = 62pF CHIP ATC "A" C3 = 10 MFD @ 35 V RFC = 4 turns #22 wire 1/16" I.D.



cage 0PJR2	DWG NO.	2324-12L		
	SCALE	1/1	SHEET	