

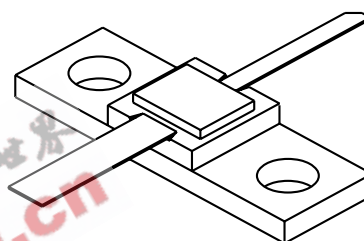
2225-4L

3.5 Watts, 24 Volts, Class C
Microwave 2200-2500 MHz

GENERAL DESCRIPTION

The 2225-4L is a COMMON BASE transistor capable of providing 3.5 Watts, Class C output power over the band 2200-2500 MHz. The transistor includes input prematching for full broadband capability. Gold metalization and diffused ballasting are used to provide high reliability and supreme ruggedness. The transistor uses a fully hermetic High Temperature Solder Sealed package.

CASE OUTLINE 55LV, STYLE 1



ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 10 Watts

Maximum Voltage and Current

BVces	Collector to Emitter Voltage	40 Volts
BVebo	Emitter to Base Voltage	3.5 Volts
Ic	Collector Current	0.6 Amps

Maximum Temperatures

Storage Temperature	- 65 to + 200°C
Operating Junction Temperature	+ 200°C

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout	Power Out	F = 2200-2500 MHz	3.5			Watts
Pin	Power Input	Vcc = 24 Volts			0.5	Watts
Pg	Power Gain		8.5			dB
η_c	Efficiency			40		%
VSWR	Load Mismatch Tolerance	Pout = 3.5Watts			10:1	

BVces	Collector to Emitter Breakdown	Ic = 10 mA	40			Volts
BVebo	Emitter to Base Breakdown	Ie = 5 mA	3.5			Volts
Hfe	Current Gain	Vce = 5V, Ic = 200 mA	20		120	
Cob	Output Capacitance	Vcb = 24 F = 1 MHz		7		pF
θ_{jc}	Thermal Resistance	Tc = 25°C			17.0	°C/W

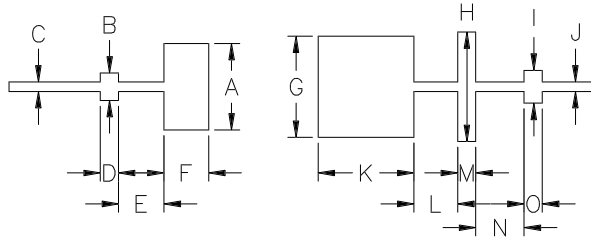
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REVISIONS

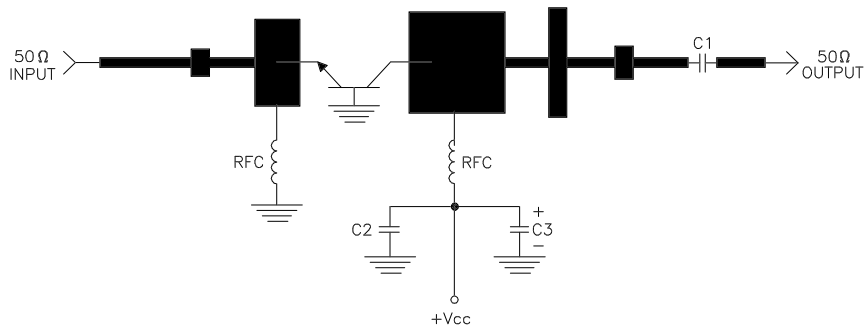
ZONE	REV	DESCRIPTION	DATE	APPROVED
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DIM	INCHES
A	.475
B	.150
C	.053
D	.100
E	.250
F	.245
G	.555
H	.600
I	.180
J	.053
K	.525
L	.240
M	.100
N	.265
O	.100



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2225-4L TEST CIRCUIT



DIELECTRIC = 20 MIL THICK TFE Er = 2.43
 C1, C2 = 62pF CHIP ATC "B"
 C3 = 10 MFD @ 35V
 RFC = 4 turns #22 wire 1/16" I.D.