

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1014 - 12

12 Watt - 28 Volts, Class C Microwave 1000 - 1400 MHz

GENERAL DESCRIPTION

The 1014-12 is a COMMON BASE transistor capable of providing 12 Watts of Class C, RF output power over the band 1000-1400 MHz. This transistor is designed for Microwave Broadband Class C amplifier applications. It includes input prematching and utilizes gold metalization and diffused ballasting to provide high reliability and supreme ruggedness.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 39 Watts

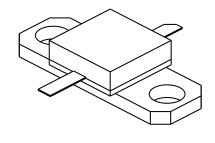
Maximum Voltage and Current

BVcesCollector to Emitter Voltage50 VoltsBVeboEmitter to Base Voltage3.5 VoltsIcCollector Current5.0 A

Maximum Temperatures

Storage Temperature $-65 \text{ to } +150^{\circ}\text{C}$ Operating Junction Temperature $+200^{\circ}\text{C}$

CASE OUTLINE 55LT, STYLE 1



ELECTRICAL CHARACTERISTICS @ 25 °C

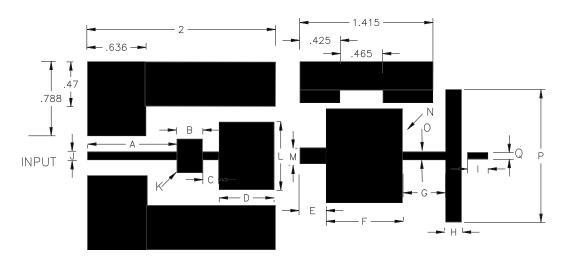
SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg η _c VSWR ₁	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 1000-1400 MHz Vcc = 28 Volts Pin = 2.5 Watts As Above F = 1.4 GHz, Pin = 2.5 W	12 6.8	40	2.5	Watt Watt dB %

BVces BVebo Icbo h _{FE} Cob	Collector to Emitter Breakdown Emitter to Base Breakdown Collector to Base Current Current Gain Output Capacitance Thermal Resistance	Ic = 5 mA Ie = 5 mA Vcb = 28 Volts Vce = 5 V, Ic = 200mA F = 1 MHz, Vcb = 28 V	50 3.5 10	12.0	3.0	Volts Volts mA
θјс	Thermal Resistance	,			4.5	°C/W

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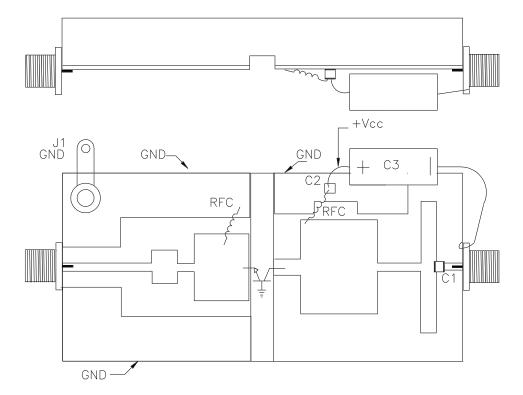
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REVISIONS						
ZONE	REV	DESCRIPTION		APPROVED		



DIM	INCHES
Α	.960
В	.270
С	.180
D	.590
Е	.280
F	.810
G	.460
Н	.168
1	.217
J	.085
K	.360
L	.720
М	.170
N	1.00
0	.085
Р	1.41
Q	.063

1014-12 TEST CIRCUIT



DIELECTRIC = 20 MIL THICK DUROID (Hardback) Er = 2.33 C1=150 pF chip C2=18 pF chip C3= 50uF, 50v dc, electrolytic RFC= 6 turns, .1 in dia., #24 ga. enamel wire



cage 0PJR2	DWG NO.	1014-12		REV 2	
	SCALE	1/1	SHEET		

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