

1214 - 55 55 Watts - 28 Volts, Pulsed Radar 1200 - 1400 MHz

The 1214- of providi width, two hermetical application provide hi	RAL DESCRIPTION -55 is an internally matched, COMMC ng 55 Watts of pulsed RF output powe enty percent duty factor across the band lly solder-sealed transistor is specifical ns. It utilizes gold metalization and di igh reliability and supreme ruggedness LUTE MAXIMUM RATIN	er at two milliseconds pulse d 1200 to 1400 MHz. This ly designed for L-Band radar ffused emitter ballasting to	CASE OUTLINE 55AW, STYLE 1
Maximum Power Dissipation @ 25°C		175 Watts	
BVces BVebo Ic Maximum Storage Te	n Voltage and Current Collector to Emitter Voltage Emitter to Base Voltage Collector Current n Temperatures emperature Junction Temperature	50 Volts 3.5 Volts 8 Amps - 65 to + 200°C + 200°C	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg ηc VSWR	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 1200-1400 MHz Vcc = 28 Volts Pulse Width = 2 ms Duty = 20 % F=1300MHz, Po=55W	55 6.5	7.0 45	12.3 3:1	Watts Watts d B %

BVces BVebo Hfe θjc	Collector to Emitter Breakdown Emitter to Base Breakdown DC Current Gain Thermal Resistance	Ic =100 mA Ie = 15 mA Vce = 5 V,Ic = 1000 mA Rated Pulse Condition	50 3.5 20	45	1.0	Volts Volts °C/W
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1214-55

1250

1300

FREQUENCY (MHz)

1350

70

60

50

40 30 20

10

0

1450

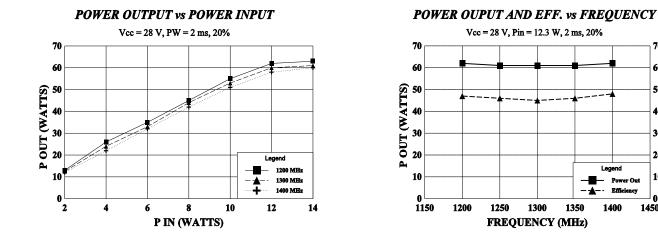
Legend

1400

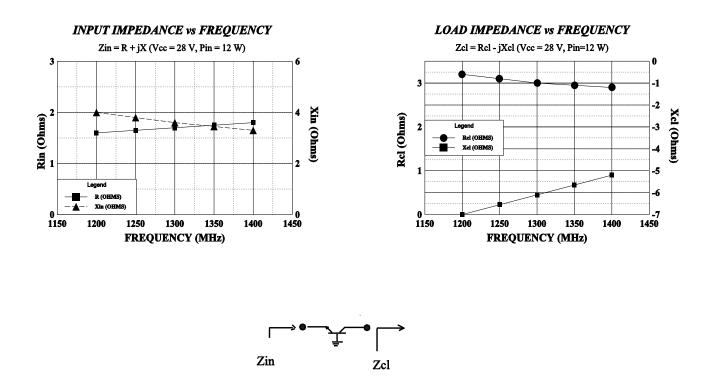
Power Out

ency Effi

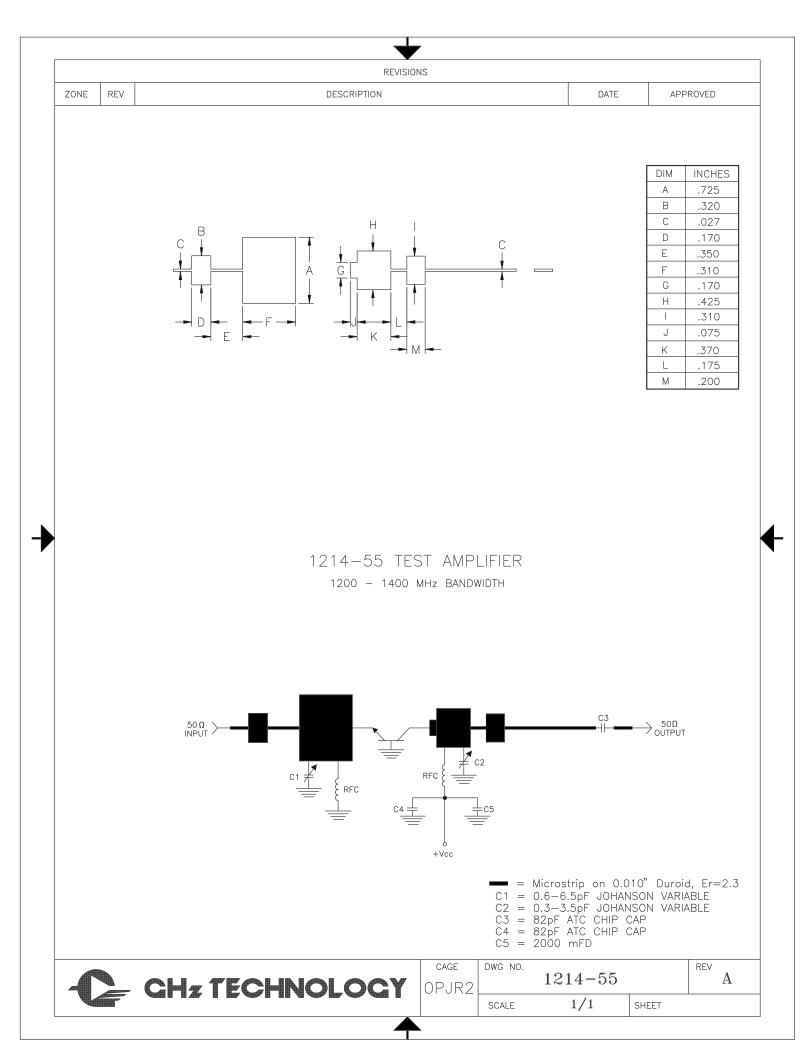
EFFICIENCY %



Typical Impedances



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Microchip: <u>1214-55</u>