

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

GENERAL DESCRIPTION The 1214-55 is an internally matched, COMM of providing 55 Watts of pulsed RF output po width, twenty percent duty factor across the b hermetically solder-sealed transistor is specifi applications. It utilizes gold metalization and provide high reliability and supreme ruggedno ABSOLUTE MAXIMUM RATI	CASE OUTLINE 55AW, STYLE 1	
ABSOLUTE MAXIMUM KATI	NGS	
Maximum Power Dissipation @ 25°C	175 Watts	
Maximum Voltage and Current BVces Collector to Emitter Voltage	50 Volts	
BVebo Emitter to Base Voltage	3.5 Volts	
Ic Collector Current	8 Amps	
Maximum Temperatures		
Storage Temperature	- 65 to + 200°C	
Operating Junction Temperature	+ 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 %

Hfe θ_{jc} DC Current Gain Thermal ResistanceVce = 5 V, Ic = 1000 mA Rated Pulse Condition20451.0	Volts °C/W		-	50 3.5 20	,		-
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1214-55

70

60

50

40 30 20

10

0

1450

Legend

Effi

1400

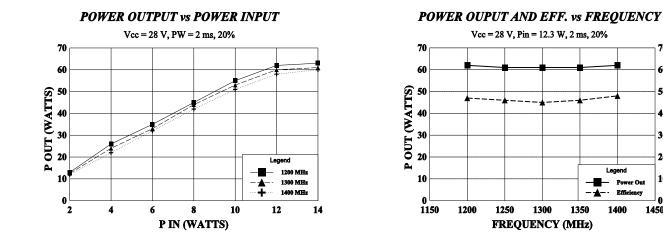
1300

1350

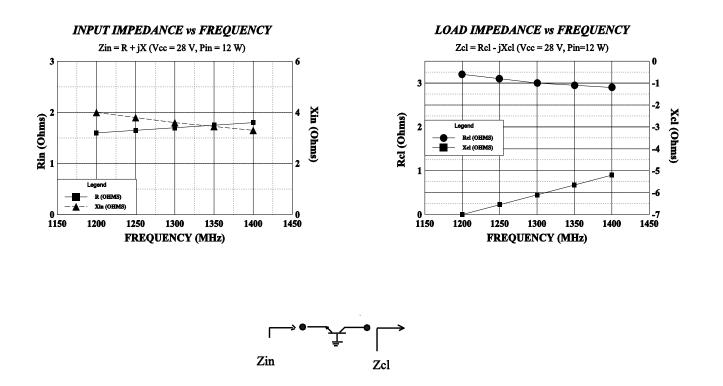
Power Out

ency

EFFICIENCY %



Typical Impedances



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