

## 1214-30

30 Watts, 28 Volts, Pulsed Radar 1200 - 1400 MHz

<b>GENEH</b> The 1214-30 providing 30 width, twent hermetically radar applica to provide hi	<b>RAL DESCRIPTION</b> O is an internally matched, COMMO O Watts of pulsed RF output power a ty percent duty factor across the ban solder-sealed transistor is specifical ations. It utilizes gold metalization a igh reliability and supreme ruggedne	CASE OUTLINE 55AW, STYLE 1	
ABSOL	LUTE MAXIMUM R	ATINGS	
Maximum Power Dissipation @ 25°C		88 Watts	
Maximum V	Voltage and Current		
BVces	Collector to Emitter Voltage	50 Volts	
BVebo	Emitter to Base Voltage	3.5 Volts	
Ic	Collector Current	4.0 Amps	
Maximum T	<b>Femperatures</b>		
Storage Temperature		- 65 to + 200°C	
Operating Junction Temperature		$+ 200^{\circ}C$	
1			

## 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 $Vcc = 28  Volts$ $Pulse  Width = 2  ms$ $Duty = 20%$ $Rated Conditions$	30 7.0	48	6.0 3:1	Watts Watts dB %

BVces BVebo	Collector to Emitter Breakdown Emitter to Base Breakdown	Ic = 50 mA Ie = 5 mA	50 3.5		Volts Volts
Hfe	DC Current Gain	Vce=5 V, Ic =500mA	20		
Cob	Output Capacitance*	F=1 MHz, Vcb=28V			pF
θjc	Thermal Resistance	Rated Pulse Condition		2.0	°C/W

\* Not measureable due to internal prematch network

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1214-30

Vcc = 28 V, Pin = 6 W, 2 ms, 20%

1200

1250

1300

**FREQUENCY (MHz)** 

1350

70

60

50

10

0

1450

Legend

1400

**Power Out** 

ency Effi

EFFICIENCY



## **Typical Impedances**



Zcl

Zin



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