

## 1417 - 12A

12 Watt - 28 Volts, Class C Microwave 1400 - 1700 MHz

The 141' Watts of transisto applicati diffused transisto	<b>ERAL DESCRIPTION</b> 7-12A is a COMMON BASE transis 7 Class C, RF output power over the b r is designed for Microwave Broadba tons. It includes Input prematching an ballasting to provide high reliability r uses a fully hermetic high temperatu	and 1400-1700 MHz. This nd Class C amplifier d utilizes Gold metalization and and supreme ruggedness. The are solder sealed package.	CASE OUTLINE 55LV, STYLE 1
	m Power Dissipation @ 25°C	29 Watts	
BVces BVebo Ic	Im Voltage and Current Collector to Emitter Voltage Emitter to Base Voltage Collector Current	50 Volts 3.5 Volts 2.0 A	
Storage Temperature		- 65 to + 200°C	
Operatin	g Junction Temperature	+ 200°C	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η <sub>c</sub> VSWR <sub>1</sub>	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 1.4-1.7  GHz Vcb = 28 Volts Pin = 2.4 Watts As Above F = 1.7 GHz, Pin = 2.4 W	12.0 7.0	8.7 40	2.4 30:1	Watt Watt dB %

BVces BVebo Icbo h <sub>FE</sub> Cob θjc	Collector to Emitter Breakdown Emitter to Base Breakdown Collector to Base Current Current Gain Output Capacitance Thermal Resistance	Ic = 80 mA Ie = 2.0 mA Vcb = 28 Volts Vce = 5 V, Ic = 800 mA F =1.0 MHz, Vcb = 28 V	50 3.5 20	12	2.0 6.0	Volts Volts mA pF °C/W
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