

1719-35

35 Watt - 28 Volts, Class C Microwave 1725 - 1850 MHz

Preliminary Issue

GENERAL DESCRIPTION The 1719-35 is a COMMON BASE transistor of Class C, RF output power over the band 172 designed for Microwave Broadband Class C, F applications. It includes Input and Output pren metalization and diffused ballasting to provide ruggedness. The transistor uses a Low Inductar sealed package.	25 -1850 MHz. This transistor is HIGH EFFICIENCY amplifier natching and utilizes Gold high reliability and supreme nce Flange Mount, Ceramic	CASE OUTLINE 55AR, STYLE 1
ABSOLUTE MAXIMUM RATI	NGS	\sim
Maximum Power Dissipation @ 25°C	97 Watts	\sim
		$ K K \rangle$
Maximum Voltage and Current		
BVces Collector to Emitter Voltage	50 Volts	
BVebo Emitter to Base Voltage	3.5 Volts	
Ic Collector Current	12 A	
Maximum Temperatures		
Storage Temperature	- 65 to + 150°C	
Operating Junction Temperature	+ 200°C	

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout Pin Pg η _c VSWR ₁	Power Out Power Input Power Gain Collector Efficiency Load Mismatch Tolerance	F = 1725 - 1850 MHz Vcb = 28 Volts Pin = 6.23 Watts As Above F = 1850 MHz, Pin = 6.23W	35 7.5 45	8.0 50	6.23 4.5:1	Watt Watt dB %

BVeboEBVeboEH_FECCobC	Collector to Emitter Breakdown Emitter to Base Breakdown Current Gain Dutput Capacitance Fhermal Resistance	Ic = 20 mA Ie = 15 mA Vce = 5 V, Ic = 1 A F = 1 MHz, Vcb = 28V	50 3.5 10		100 1.8	Volts Volts pF °C/W
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72045

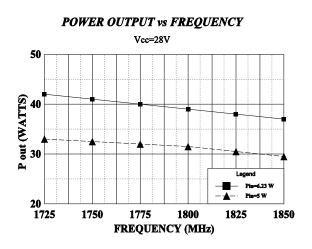
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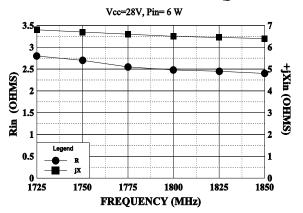
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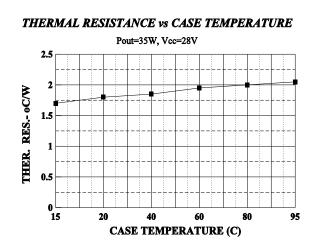




SERIES INPUT IMPEDANCE VS FREQUENCY



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SERIES LOAD IMPEDANCE vs FREQUENCY

