

## VAM 40

40 Watts, 27 Volts, Class AB Defcom 100 - 150 MHz

<b>GENERAL DESCRIPTIO</b> The VAM 40 is a COMMON EMITTER, modulated operation in the VHF AM apple	CASE OUTLINE 55HT, Style 2	
ABSOLUTE MAXIMUM Maximum Power Dissipation @ 25°C	RATINGS 50 Watts	
Maximum Voltage and CurrentBVcesCollector to Emiter VoltageBVeboEmitter to Base VoltageIcCollector Current	60 Volts 4.0 Volts 5.0 A	
Maximum Temperatures Storage Temperature Operating Junction Temperature	- 65 to +150°C +200°C	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout	Power Output	F = 150  MHz	40	2.2	4.0	Watts
Pin Pg	Power Input Power Gain	Vcc =27V, 1 KHz, 50%	10	3.2 11	4.0	Watts dB
Pout Pin	Power Output	F = 150  MHz Vcc = 13.5 Volts	10		2.0	Watts Watts
Pg	Power Input Power Gain	$\mathbf{v}$ cc = 15.5 $\mathbf{v}$ ons		8.0	2.0	dB
ηc VSWR	Efficiency Load Mismatch Tolerance	F = 150 MHz, Po=10 W Vcc = 13.5 Volts		65	30:1	%

BVebo BVces BVceo	Emitter to Base Breakdown Collector to Emitter Breakdown Collector to Emitter Breakdown	Ie = 5 mA Ic = 20 mA Ie = 50 mA	4.0 60 32		Volts Volts Volts
Ices	Collector Leakage Current	Vce = 5 Volts		30	mA
Cob	Output Capacitance	Vcb = 28 V, F = 1 MHz		25	pF
h <sub>FE</sub>	DC - Current Gain	Vce =5 V, Ic = 500 MA	10	100	
θjc	Thermal Resistance			3.5	°C/W

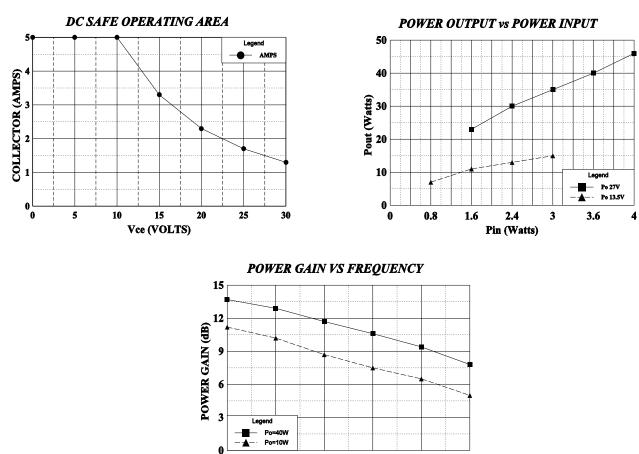
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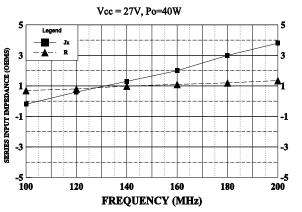


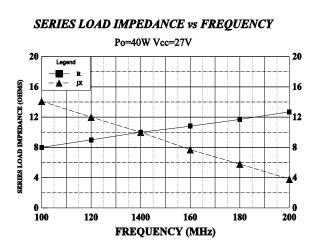






**FREQUENCY (MHz)** 



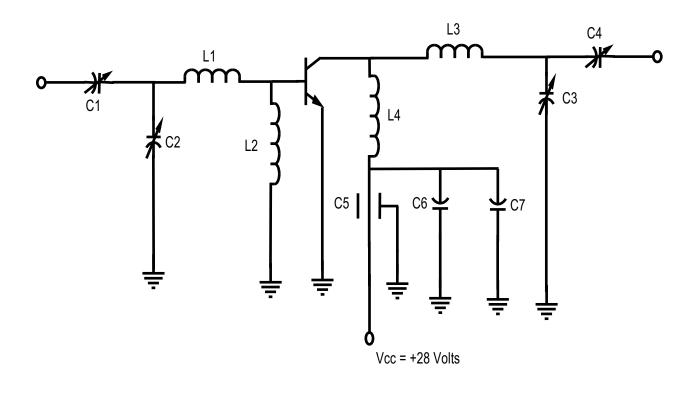


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## 150 MHz TEST AMPLIFIER



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