

UMIL 80

80 Watts, 28 Volts, Class AB Defcom 200 - 500 MHz

GENERAL DESCRIPTION The UMIL80 is a double input matched COMMON EMITTER broadband transistor specifically intended for use in the 200-500 MHz frequency band. It may be operated in Class AB or C. Gold metallization and silicon diffused resistors ensure ruggedness and high reliability.		CASE OUTLINE 55HV, Style 2
ABSOLUTE MAXIMUM Maximum Power Dissipation @ 25°C	RATINGS 220 Watts	
Maximum Voltage and Current		
BVces Collector to Emiter Voltage	65 Volts	
BVebo Emitter to Base Voltage	4.0 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 ηc VSWR	Power Output Power Input Power Gain Efficiency Load Mismatch Tolerance	F = 400 MHz Vcc = 28 Volts	80 9.0 55	9.5	10 5:1	Watts Watts dB %

DX-L-	Endition to Day 1 day	T. 5	4.0			V 7 - 1(-
BVebo	Emitter to Base Breakdown	Ie = 5 mA	4.0			Volts
BVces	Collector to Emitter Breakdown	Ic = 20 mA	60			Volts
BVceo	Collector to Emitter Breakdown	Ie = 20 mA	31			Volts
BVcbo	Collector to Base Breakdown	Ic = 20 mA	60			Volts
Cob	Output Capacitance	Vcb=28 V, F= 1 MHz		80		pF
h _{FE}	DC - Current Gain	Vce = 5 V, Ic = 1 A	10			
θjc	Thermal Resistance				0.8	°C/W

Issue October 1998 : Correct Case from Hu to HV

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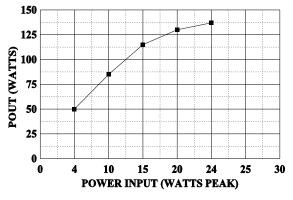
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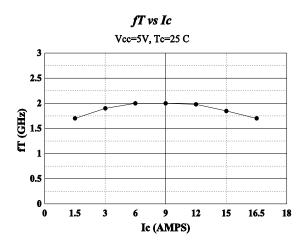


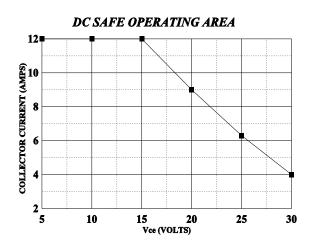


POWER OUTPUT vs POWER INPUT

Vcc= 28V f=400MHz







August 1996