

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.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 220 Watts

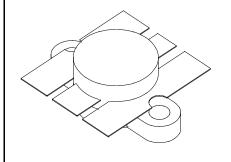
Maximum Voltage and Current

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

CASE OUTLINE 55HV, Style 2



ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg ηc VSWR	Power Output Power Input Power Gain Efficiency Load Mismatch Tolerance	F = 400 MHz Vcc = 28 Volts	9.0 55	9.5	10 5:1	Watts Watts dB %

DX7 1	F ''	T 6 A	4.0			X7 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
$\mathbf{h}_{ ext{FE}}$	DC - Current Gain	Vce = 5 V, Ic = 1 A	10			
θјс	Thermal Resistance				0.8	°C/W

Issue October 1998: Correct Case from Hu to HV

GHz TECHNOLOGY INC. RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE. GHZ RECOMMENDS THAT BEFORE THE PRODUCT(S) DESCRIBED HEREIN ARE WRITTEN INTO SPECIFICATIONS, OR USED IN CRITICAL APPLICATIONS, THAT THE PERFORMANCE CHARACTERISTICS BE VERIFIED BY CONTACTING THE FACTORY.

GHz Technology Inc. 3000 Oakmead Village Drive, Santa Clara, CA 95051-0808 Tel. 408 / 986-8031 Fax 408 / 986-8120





POWER OUTPUT vs POWER INPUT

