



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



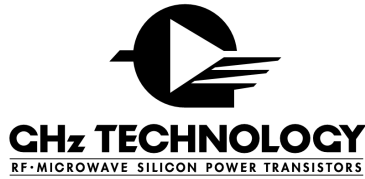
## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

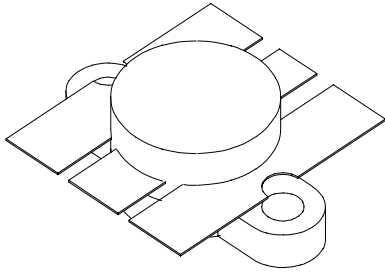
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# UMIL 80

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

<p><b>GENERAL DESCRIPTION</b></p> <p>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.</p>	<p><b>CASE OUTLINE</b> <b>55HV, Style 2</b></p> 
<p><b>ABSOLUTE MAXIMUM RATINGS</b></p> <p>Maximum Power Dissipation @ 25°C                      220 Watts</p> <p><b>Maximum Voltage and Current</b></p> <p>BVces    Collector to Emitter Voltage                      65 Volts          BVebo    Emitter to Base Voltage                                4.0 Volts          Ic        Collector Current    12 A</p> <p><b>Maximum Temperatures</b></p> <p>Storage Temperature    - 65 to +150°C          Operating Junction Temperature                                +200°C</p>	

## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
<b>Pout</b>	Power Output	F = 400 MHz	80			Watts
<b>Pin</b>	Power Input	Vcc = 28 Volts			10	Watts
<b>Pg</b>	Power Gain		9.0	9.5		dB
$\eta_c$	Efficiency		55			%
<b>VSWR</b>	Load Mismatch Tolerance				5:1	

<b>BVebo</b>	Emitter to Base Breakdown	Ie = 5 mA	4.0			Volts
<b>BVces</b>	Collector to Emitter Breakdown	Ic = 20 mA	60			Volts
<b>BVceo</b>	Collector to Emitter Breakdown	Ie = 20 mA	31			Volts
<b>BVcbo</b>	Collector to Base Breakdown	Ic = 20 mA	60			Volts
<b>Cob</b>	Output Capacitance	Vcb=28 V, F= 1 MHz		80		pF
<b>h<sub>FE</sub></b>	DC - Current Gain	Vce = 5 V, Ic = 1 A	10			
$\theta_{jc}$	Thermal Resistance				0.8	°C/W

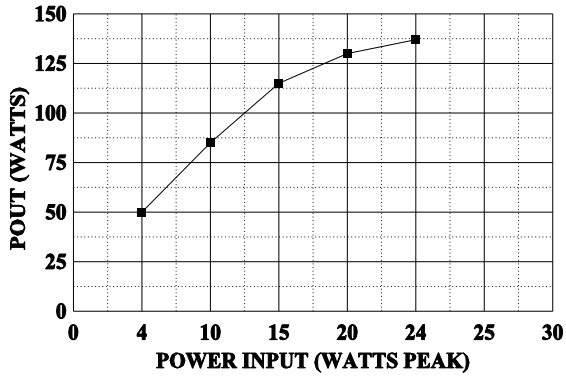
Issue October 1998 : Correct Case from Hu to HV

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

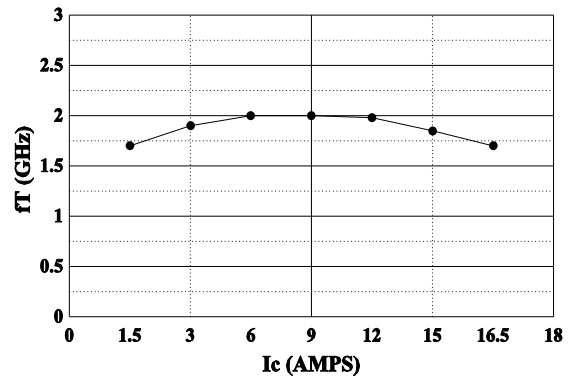
**POWER OUTPUT vs POWER INPUT**

$V_{cc}=28V$   $f=400MHz$



***fT vs Ic***

$V_{cc}=5V$ ,  $T_c=25C$



**DC SAFE OPERATING AREA**

