

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

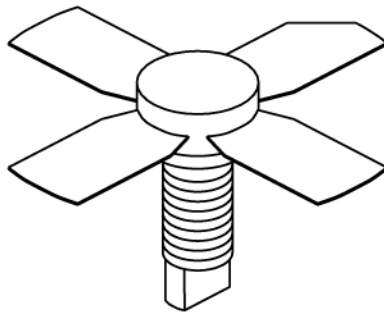
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## UMIL 3

3 Watts, 28 Volts, Class AB  
Defcom 225 - 400 MHz

<p><b>GENERAL DESCRIPTION</b></p> <p>The UMIL3 is a COMMON EMITTER broadband transistor specifically intended for use in the 225-400 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>55FT, Style 2</b></p> 
<p><b>ABSOLUTE MAXIMUM RATINGS</b></p> <p>Maximum Power Dissipation @ 25°C                      11 Watts</p> <p><b>Maximum Voltage and Current</b></p> <p>BVces    Collector to Emitter Voltage                      55 Volts  BVebo    Emitter to Base Voltage                              4.0 Volts  Ic         Collector Current    0.7 A</p> <p><b>Maximum Temperatures</b></p> <p>Storage Temperature    - 65 to +150°C  Operating Junction Temperature                              +150°C</p>	

### ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
P <sub>out</sub>	Power Output	F = 400 MHz	3			Watts
P <sub>in</sub>	Power Input	V <sub>cc</sub> = 28 Volts			0.2	Watts
P <sub>g</sub>	Power Gain		11.8	13		dB
η <sub>c</sub>	Efficiency			60		%
V <sub>SWR</sub>	Load Mismatch Tolerance				30:1	

BV <sub>ebo</sub>	Emitter to Base Breakdown	I <sub>e</sub> = 5 mA	4.0			Volts
BV <sub>ces</sub>	Collector to Emitter Breakdown	I <sub>c</sub> = 20 mA	55			Volts
BV <sub>ceo</sub>	Collector to Emitter Breakdown	I <sub>e</sub> = 50 mA	30			Volts
C <sub>ob</sub>	Output Capacitance	V <sub>cb</sub> = 28 V, F = 1 MHz		4.5		pF
h <sub>FE</sub>	DC - Current Gain	V <sub>ce</sub> = 5 V, I <sub>c</sub> = 100 A	10	45	150	
θ <sub>jc</sub>	Thermal Resistance				16	°C/W

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