



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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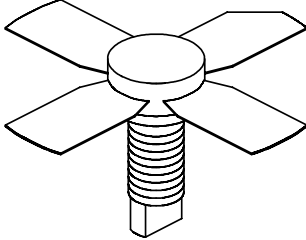
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# UMIL 10

100 Watts, 28 Volts, Class AB or C  
Defcom 100 - 400 MHz

<p><b>GENERAL DESCRIPTION</b> The UMIL10 is a COMMON EMITTER broadband transistor specifically intended for use in the 100-400 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 style="text-align: center;"><b>CASE OUTLINE</b> <b>55FT, Style 2</b></p> 
<p><b>ABSOLUTE MAXIMUM RATINGS</b> Maximum Power Dissipation @ 25°C                      28 Watts</p> <p><b>Maximum Voltage and Current</b> BVces Collector to Emitter Voltage                      55 Volts BVebo Emitter to Base Voltage                              4.0 Volts Ic Collector Current    1.5 A</p> <p><b>Maximum Temperatures</b> Storage Temperature    - 65 to +150°C Operating Junction Temperature                              +200°C</p>	

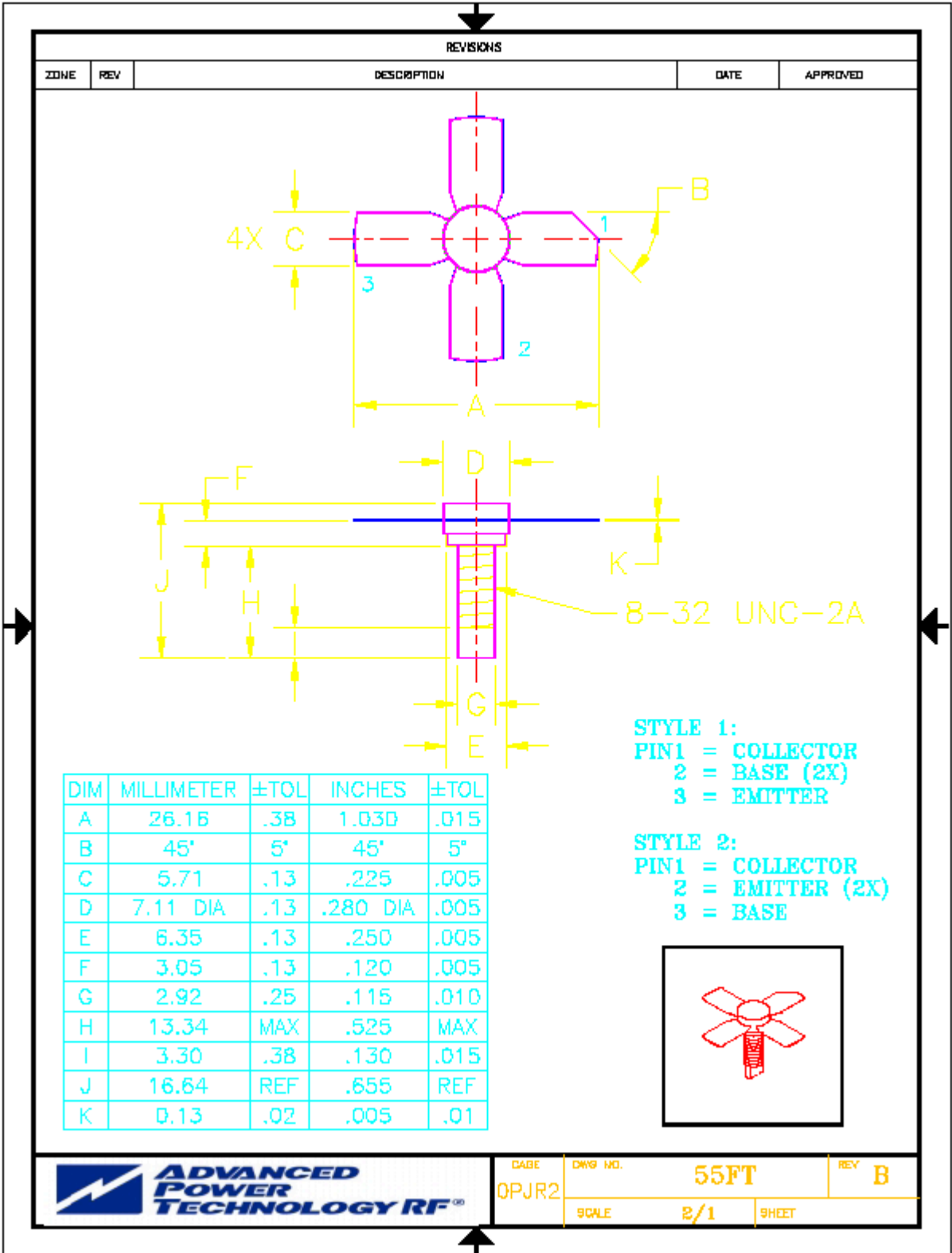
## ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
<b>Pout</b>	Power Output	F = 400 MHz	10			Watts
<b>Pin</b>	Power Input	Vcc = 28 Volts			1.0	Watts
<b>Pg</b>	Power Gain	Class C Bias	10.0			dB
<b>ηc</b>	Efficiency			60		%
<b>VSWR</b>	Load Mismatch Tolerance				30:1	

<b>BVebo</b>	Emitter to Base Breakdown	Ie = 5 mA	4.0			Volts
<b>BVces</b>	Collector to Emitter Breakdown	Ic = 50 mA	55			Volts
<b>BVceo</b>	Collector to Emitter Breakdown	Ie = 50 mA	30			Volts
<b>Cob</b>	Output Capacitance	Vcb = 28 V, F = 1 MHz		11.5		pF
<b>hFE</b>	DC - Current Gain	Vce = 5 V, Ic = 200 mA	10			
<b>θjc</b>	Thermal Resistance				6.3	°C/W

Rev. A : August 2005

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