mail

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





1004MP

4 Watts, 35 Volts Pulsed Avionics, 960 to 1215 MHz

GENERAL DESCRIPTION The 1004MP is a COMMON BASE transistor capable of providing 4 Watts of Pulsed, RF output power in the band 960 to 1215 MHz. This transistor is specifically designed for pulsed Avionics amplifier applications. It utilizes gold metalization and low thermal resistance packaging to provide high reliability and supreme ruggedness.	CASE OUTLINE 55FW-1
ABSOLUTE MAXIMUM RATINGSMaximum Power DissipationDevice Dissipation @ 25° C7 WMaximum Voltage and CurrentCollector to Base Voltage (BV _{ces})50 VEmitter to Base Voltage (BV _{ebo})3.5 VCollector Current (I _c)300 mA	
Maximum TemperaturesStorage Temperature-40 to +150 °COperating Junction Temperature+200 °C	

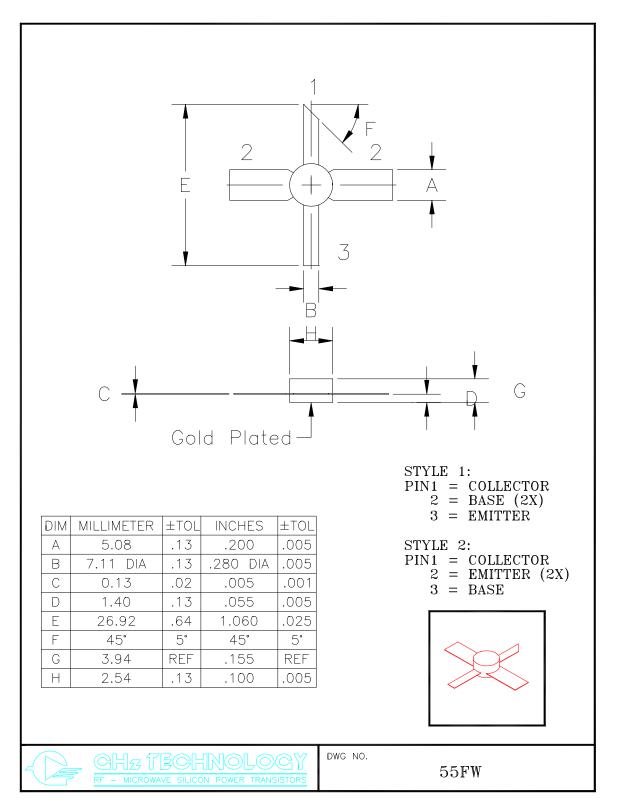
ELECTRICAL CHARACTERISTICS @ 25°C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
Pout	Power Output	F = 1090 MHz	4.0	4.5		W
P _{in}	Power Input	$V_{cc} = 35$ Volts			0.5	W
Pg	Power Gain	$PW = 10 \mu s, DF = 1\%$	7.0	9.0		dB
η _c	Collector Efficiency		40	45		%
VSWR	Load Mismatch Tolerance				30:1	

FUNCTIONAL CHARACTERISTICS @ 25°C

BV _{ebo}	Emitter to Base Breakdown	Ie = 1 mA	3.5			V
BV _{ces}	Collector to Emitter Breakdown	Ic = 10 mA	50			V
\mathbf{h}_{FE}	DC – Current Gain	Vce = 5V, Ic = 100 mA	20			
C _{ob}	Capacitance	Vcb = 28V, f = 1 MHz		3.3	5.0	pF
θjc ¹	Thermal Resistance				25	°C/W

1004MP



Advanced Power Technology reserves the right to change, without notice, the specifications and information contained herein. Visit our web site at <u>www.advancedpower.com</u> or contact our factory direct.