

1075MP

75 Watts, 50 Volts, Class C Avionics 1025 - 1150 MHz

The 1075MF systems in the metallization	L DESCRIPTION P is a COMMON BASE bipolar tran he frequency band 1025-1150 MHz. h for proven highest MTTF. The trans capability. Low thermal resistar extends life.	CASE OUTLINE 55FW-1	
	TE MAXIMUM RATINGS	050 H/ // DI	
Maximum Power Dissipation @ 25°C ² 250 Watts Pk		250 Watts Pk	
Maximum Voltage and Current			
BVces	Collector to Emitter Voltage	65 Volts	
BVebo	Emitter to Base Voltage	3.5 Volts	
Ic	Collector Current	6.5 Amps Pk	$\langle \rangle \rangle$
Maximum T	Femperatures	-	\sim
Storage Temperature $-65 \text{ to} + 150^{\circ}\text{C}$			
Operating Junction Temperature + 200°C			

ELECTRICAL CHARACTERISTICS @ 25°C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	ТҮР	MAX	UNITS
P _{OUT}	Power Out	F= 1025-1150 MHz	75			W
P _{IN}	Power Input	Vcc = 50 Volts			13	W
P _G	Power Gain	$PW = 10 \ \mu sec, DF = 1\%$	7.5	9		dB
ης	Efficiency			40		%
VSWR	Load Mismatch Tolerance	F = 1090 MHz			20:1	

FUNCTIONAL CHARACTERISTICS @ 25°C

BVebo	Emitter to Base Breakdown	Ie = 5 mA	3.5			V
BVces	Collector to Emitter Breakdown	Ic = 15mA	65			V
Hfe	DC Current Gain	Vce = 5V, Ic = 100 mA	20			
Cob	Output Capacitance	Vcb = 50 V, f = 1 MHz		45	50	pF
θjc ²	Thermal Resistance				0.6	°C/W

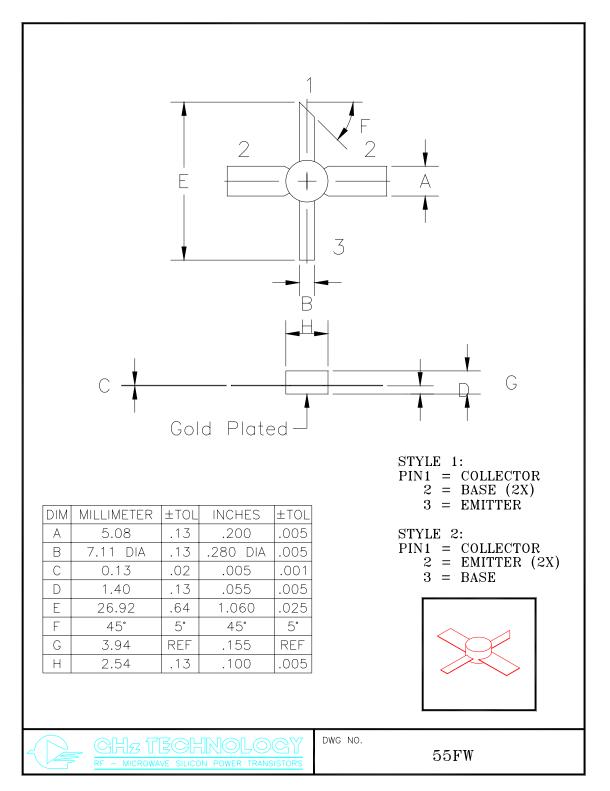
Note 1: At rated output power and pulse conditions

2: At rated pulse conditions

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