

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!



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1090MP

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

GENERAL DESCRIPTION

The 1090MP is a COMMON BASE bipolar transistor. It is designed for pulsed systems in the frequency band 1025-1150 MHz. The device has gold thin-film metallization for proven highest MTTF. The transistor includes input prematch for broadband capability. Low thermal resistance package reduces junction temperature, extends life.

CASE OUTLINE 55FW-1

ABSOLUTE MAXIMUM RATINGS

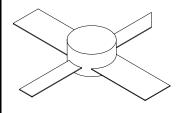
Maximum Power Dissipation @ 25°C² 250 Watts Peak

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 Peak

Maximum Temperatures

Storage Temperature $-65 \text{ to } +150 \text{ }^{\circ}\text{C}$ Operating Junction Temperature $+200 \text{ }^{\circ}\text{C}$



ELECTRICAL CHARACTERISTICS @ 25°C

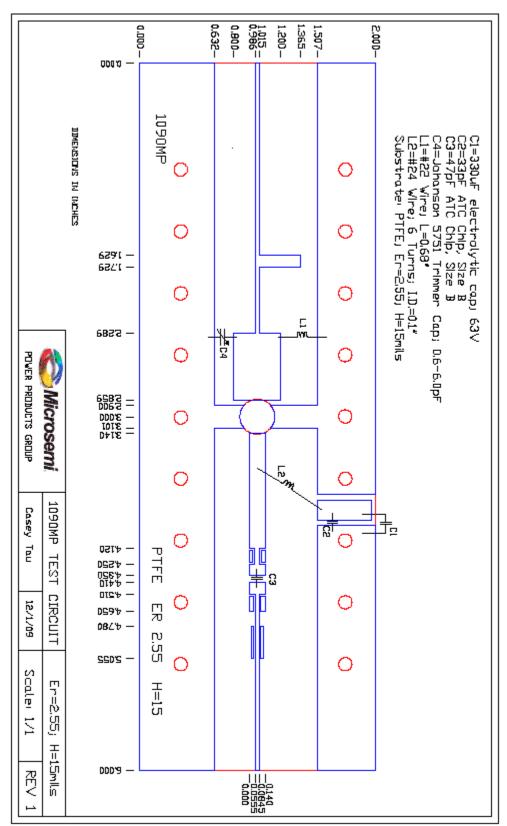
SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
P _{OUT}	Power Out	F= 1025-1150 MHz	90			W
P_{IN}	Power Input	Vcc = 50 Volts			14	W
P_{G}	Power Gain	$PW = 10 \mu sec, DF = 1\%$	8.08	8.5		dB
ης	Efficiency			40		%
VSWR ¹	Load Mismatch Tolerance	F = 1090 MHz			20:1	

FUNCTIONAL CHARACTERISTICS @ 25°C

BVebo	Emitter to Base Breakdown	Ie = 1 mA	3.5			V
BVces	Collector to Emitter Breakdown	Ic = 10mA	65			V
Hfe	DC Current Gain	Vce = 5V, Ic = 500 mA	15		120	
Cob	Output Capacitance	Vcb = 50 V, f = 1 MHz		12		pF
θjc ¹	Thermal Resistance				0.6	°C/W

Note 1: At rated pulse conditions

Rev B: Dec 2009



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