

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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Radar Pulsed Power Transistor 55W, 3.1-3.4 GHz, 300µs Pulse, 10% Duty

M/A-COM Products Released, 10 Aug 07

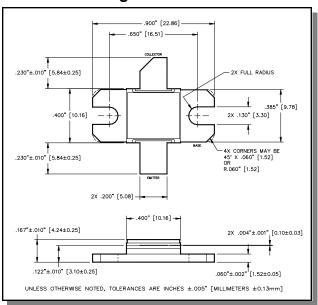
Features

- NPN silicon microwave power transistors
- Common base configuration
- Broadband Class C operation
- High efficiency inter-digitized geometry
- Diffused emitter ballasting resistors
- Gold metallization system
- Internal input and output impedance matching
- Hermetic metal/ceramic package
- RoHS compliant

Absolute Maximum Ratings at 25°C

Parameter	Symbol	Rating	Units
Collector-Emitter Voltage	V_{CES}	65	V
Emitter-Base Voltage	V_{EBO}	3.0	V
Collector Current (Peak)	Ic	6.5	Α
Power Dissipation @ +25°C	P _{TOT}	350	W
Storage Temperature	T _{STG}	-65 to +200	°C
Junction Temperature	T_J	200	°C

Outline Drawing



Electrical Specifications: T_C = 25 ± 5°C (Room Ambient)

Parameter	Test Conditions	Frequency	Symbol	Min	Max	Units
Collector-Emitter Breakdown Voltage	I _C = 25mA		BV _{CES}	65	-	V
Collector-Emitter Leakage Current	V _{CE} = 36V		I _{CES}	-	5.0	mA
Thermal Resistance	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	R _{TH(JC)}	1	0.5	°C/W
Input Power	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	P _{IN}	-	9.8	W
Power Gain	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	G _P	7.5	-	dB
Collector Efficiency	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	ης	35	-	%
Input Return Loss	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	RL	-	-6	dB
Load Mismatch Tolerance	Vcc = 36V, Pout = 55W	F = 3.25 GHz	VSWR-T	-	2:1	-

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Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298 Visit www.macomtech.com for additional data sheets and product information.

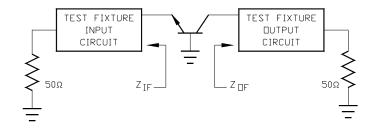


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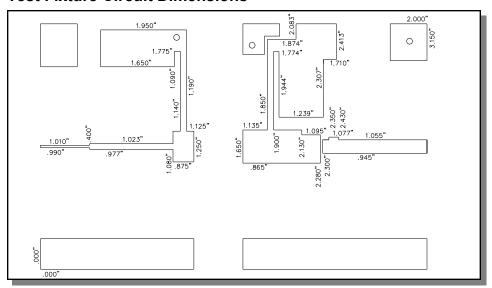
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RF Test Fixture Impedance

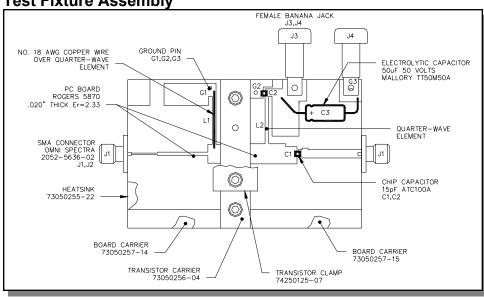
F (GHz)	Z _{IF} (Ω)	Z _{OF} (Ω)
3.10	11.2 - j11.7	8.1 - j5.3
3.25	11.5 - j9.5	7.1 - j4.3
3.40	12.7 - j7.6	6.4 - j3.3



Test Fixture Circuit Dimensions



Test Fixture Assembly



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PRELIMINARY: Data Sheets contain information regarding a product M/A-COM Technology Solutions has under development. Performance is based on engineering tests. Specifications are typical. Mechanical outline has been fixed. Engineering samples and/or test data may be available. Commitment to produce in volume is not guaranteed.

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