

Released, 30 May 07

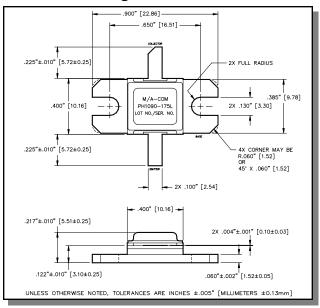
Features

- · 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}	80	V
Emitter-Base Voltage	V_{EBO}	3.0	V
Collector Current (Peak)	Ic	10.5	Α
Power Dissipation @ +25°C	P _{TOT}	375	W
Storage Temperature	T_{STG}	-65 to +200	°C
Junction Temperature	T_J	200	°C

Outline Drawing



Electrical Specifications: $T_C = 25 \pm 5^{\circ}C$ (Room Ambient)

Parameter	Test Conditions	Frequency	Symbol	Min	Max	Units
Collector-Emitter Breakdown Voltage	I _C = 125mA		BV_CES	80	-	V
Collector-Emitter Leakage Current	V _{CE} = 45V		I _{CES}	-	12.5	mA
Thermal Resistance	Vcc = 45V, Pin = 26W	F = 1090 MHz	R _{TH(JC)}	-	0.4	°C/W
Output Power	Vcc = 45V, Pin = 26W	F = 1090 MHz	P _{OUT}	175	-	W
Power Gain	Vcc = 45V, Pin = 26W	F = 1090 MHz	G_P	8.3	-	dB
Collector Efficiency	Vcc = 45V, Pin = 26W	F = 1090 MHz	ης	55	i	%
Input Return Loss	Vcc = 45V, Pin = 26W	F = 1090 MHz	RL	-	-9	dB
Load Mismatch Tolerance	Vcc = 45V, Pin = 26W	F = 1090 MHz	VSWR-T	-	3:1	-
Load Mismatch Stability	Vcc = 45V, Pin = 26W	F = 1090 MHz	VSWR-S	-	1.5:1	-

ADVANCED: Data Sheets contain information regarding a product M/A-COM Technology Solutions is considering for development. Performance is based on target specifications, simulated results, and/or prototype measurements. Commitment to develop is not guaranteed.

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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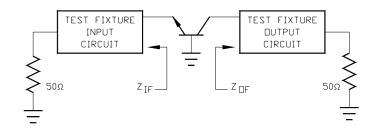
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Typical RF Performance

Freq.	Pin	Pout	Gain	Ic	Eff	RL	VSWR-S	VSWR-T
(MHz)	(W)	(W)	(dB)	(A)	(%)	(dB)	(1.5:1)	(3:1)
1090	26.0	188	8.58	7.16	58.3	-16.0	S	Р

RF Test Fixture Impedance

F (MHz)	Z _{IF} (Ω)	Z _{OF} (Ω)
1030	3.4 - j5.6	2.3 - j2.2
1090	3.2 - j5.1	2.3 - j1.7

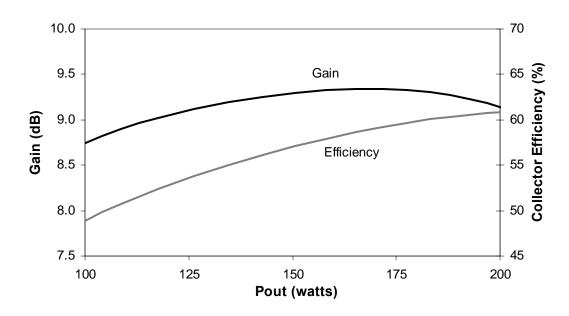


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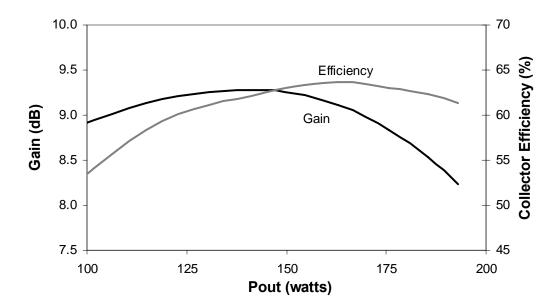


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RF Power Transfer Curve 1030 MHz, Gain & Efficiency vs. Output Power



RF Power Transfer Curve 1090 MHz, Gain & Efficiency vs. Output Power



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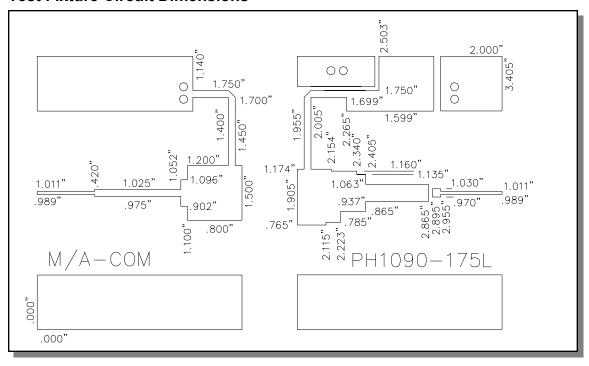
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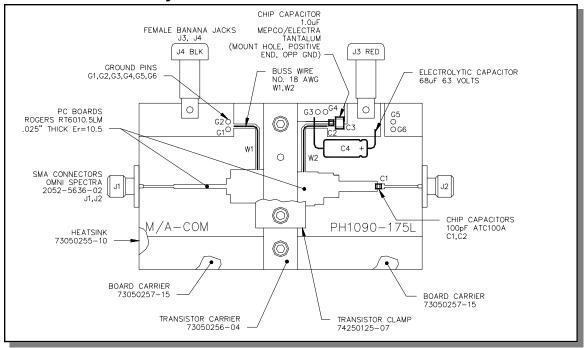


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Test Fixture Circuit Dimensions



Test Fixture Assembly



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