

# **Excellent Integrated System Limited**

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M/A-Com Technology Solutions PH3134-11S

For any questions, you can email us directly: <a href="mailto:sales@integrated-circuit.com">sales@integrated-circuit.com</a>

## Distributor of M/A-Com Technology Solutions: Excellent Integrated System Limited

Datasheet of PH3134-11S - TRANSISTOR 11W 36V 3.10-3.40GHZ

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

## PH3134-11S



## Radar Pulsed Power Transistor 11W, 3.1-3.4 GHz, 1µs Pulse, 10% Duty

M/A-COM Products Released, 10 Jul 07

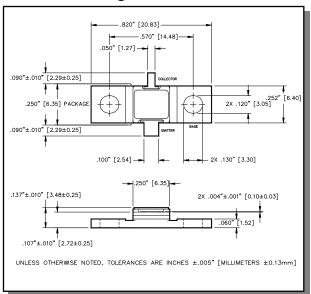
#### **Features**

- 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 <sub>CES</sub>	60	V
Emitter-Base Voltage	$V_{EBO}$	3.0	V
Collector Current (Peak)	Ic	1.3	Α
Power Dissipation @ +25°C	P <sub>TOT</sub>	125	W
Storage Temperature	T <sub>STG</sub>	-65 to +200	°C
Junction Temperature	$T_J$	200	°C

### **Outline Drawing**



### Electrical Specifications: T<sub>C</sub> = 25 ± 5°C (Room Ambient)

Parameter	Test Conditions	Frequency	Symbol	Min	Max	Units
Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 12.5mA		BV <sub>CES</sub>	60	-	V
Collector-Emitter Leakage Current	V <sub>CE</sub> = 36V		I <sub>CES</sub>	-	1.25	mA
Thermal Resistance	Vcc = 36V, Pout = 11W	F = 3.1, 3.25, 3.4 GHz	R <sub>TH(JC)</sub>	-	1.4	°C/W
Input Power	Vcc = 36V, Pout = 11W	F = 3.1, 3.25, 3.4 GHz	P <sub>IN</sub>	-	1.74	W
Power Gain	Vcc = 36V, Pout = 11W	F = 3.1, 3.25, 3.4 GHz	G₽	8.0	-	dB
Collector Efficiency	Vcc = 36V, Pout = 11W	F = 3.1, 3.25, 3.4 GHz	ης	35	-	%
Input Return Loss	Vcc = 36V, Pout = 11W	F = 3.1, 3.25, 3.4 GHz	RL	-	-6	dB
Load Mismatch Tolerance	Vcc = 36V, Pout = 11W	F = 3.25 GHz	VSWR-T	-	2:1	-

**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,

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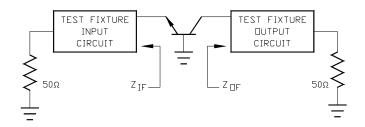
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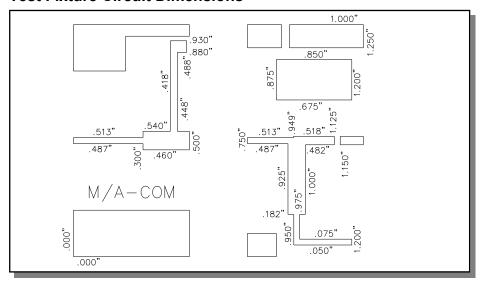
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#### **RF Test Fixture Impedance**

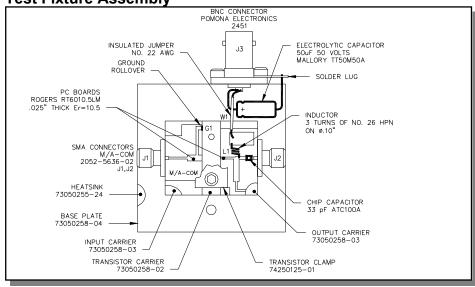
F (GHz)	Z <sub>IF</sub> (Ω)	Z <sub>OF</sub> (Ω)
3.10	17.5 - j8.5	90 + j37
3.25	15.0 - j8.2	58 + j7.0
3.40	13.0 - j8.0	30 + j14.5



#### **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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