

## **Excellent Integrated System Limited**

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M/A-Com Technology Solutions PH3134-55L

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



**Distributor of M/A-Com Technology Solutions: Excellent Integrated System Limited** Datasheet of PH3134-55L - TRANSISTOR BIPOLAR 3.10-3.40GHZ Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

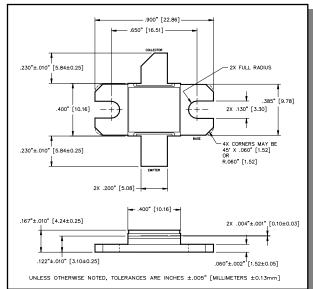
## PH3134-55L

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

### 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

### **Outline Drawing**



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**M/A-COM Products** 

Released, 10 Aug 07

### Absolute Maximum Ratings at 25°C

Parameter	Symbol	Rating	Units
Collector-Emitter Voltage	V <sub>CES</sub>	65	V
Emitter-Base Voltage	V <sub>EBO</sub>	3.0	V
Collector Current (Peak)	Ιc	6.5	А
Power Dissipation @ +25°C	P <sub>TOT</sub>	350	W
Storage Temperature	T <sub>STG</sub>	-65 to +200	°C
Junction Temperature	TJ	200	°C

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

Parameter	Test Conditions	Frequency	Symbol	Min	Мах	Units
Collector-Emitter Breakdown Voltage	I <sub>C</sub> = 25mA		BV <sub>CES</sub>	65	-	V
Collector-Emitter Leakage Current	V <sub>CE</sub> = 36V		I <sub>CES</sub>	-	5.0	mA
Thermal Resistance	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	R <sub>TH(JC)</sub>	-	0.5	°C/W
Input Power	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	P <sub>IN</sub>	-	9.8	W
Power Gain	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	G <sub>P</sub>	7.5	-	dB
Collector Efficiency	Vcc = 36V, Pout = 55W	F = 3.1, 3.25, 3.4 GHz	η <sub>c</sub>	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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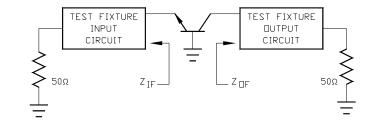
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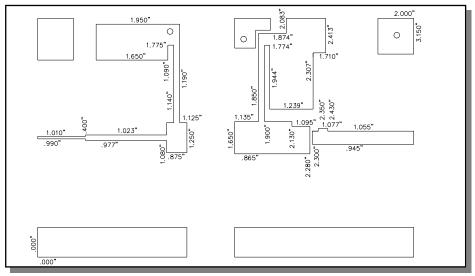
### M/A-COM Products Released, 10 Aug 07

### **RF Test Fixture Impedance**

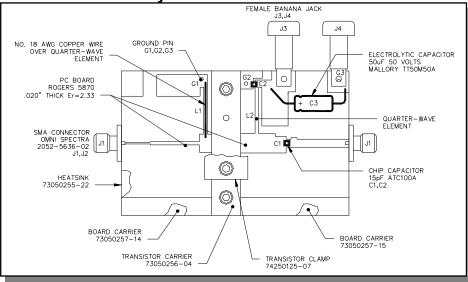
F (GHz)	Z <sub>IF</sub> (Ω)	Z <sub>OF</sub> (Ω)
3.10	11.2 - j11.7	8.1 - j5.3
3.25	11.5 - j9.5	7.1 - j4.3
3.40	12.7 - j7.6	6.4 - j3.3



### **Test Fixture Circuit Dimensions**



### **Test Fixture Assembly**



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