

ARJ188

10 TO 150 MHz GULLWING CASCADABLE AMPLIFIER

Typical Values

Low Noise Figure	ARJ188
High Output Level	<3.4 dB
High Third Order I.P.	+24.0 dBm
High Performance Thin Film	+42 dBm
10-Pin Gullwing Package	

SPECIFICATIONS*

Parameter	Typical	Guaranteed	
		0 to 50 °C	-55 to +85 °C
Frequency (Min.)	10-200 MHz	10-150 MHz	10-150 MHz
Small Signal Gain (Min.)	13.0 dB	12.0 dB	11.5 dB
Gain Flatness (Max.)	±0.4 dB	±0.5 dB	±0.7 dB
Noise Figure (Max.)	3.4 dB	3.9 dB	4.5 dB
SWR (Max.) Input/Output	1.5:1	1.8:1	1.9:1
Power Output (Min.) @ 1dB comp.	+ 24.0 dBm	+ 23.0 dBm	+ 22.5 dBm
DC Current (Max.)	200 mA	210 mA	220 mA

* Measured in a 50-ohm system at +15 Vdc unless otherwise specified.

INTERMODULATION PERFORMANCE

Typical @ 25 °C; 100 MHz

Second Order Harmonic Intercept Point	ARJ188
Second Order Two Tone Intercept Point	+78 dBm
Third Order Two Tone Intercept Point	+72 dBm
	+42 dBm

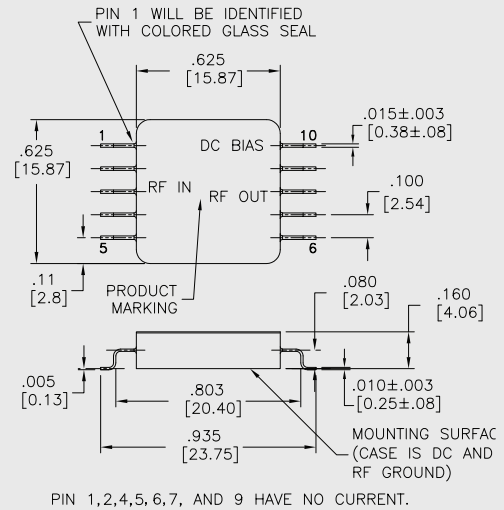
ABSOLUTE MAXIMUM RATINGS

Storage Temperature	-62 to +125 °C
Maximum Case Temperature	+125 °C
Maximum DC Voltage	+17 Volts
Maximum Continuous RF Input Power	+13 dBm
Maximum Short Term Input Power (1 Minute Max.)	50 Milliwatts
Maximum Peak Power (3 µsec Max.)	0.5 Watt
Q Series Burn-in Temperature	+105°C
Thermal Resistance¹ (θjc)	— C/Watt
Junction Temperature Rise Above Case (Tjc)	— C

¹ Thermal resistance is based on total power dissipation.

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10-Pin Gullwing Package



DIMENSIONS ARE IN INCHES [MILLIMETERS]