

RF Amplifier

- * Operating Frequency : 500-3000 MHz.
- * Gain : 12 dB.
- * High IP3 40 dBm.
- * No external components required

Direct replacement for TELEDYNE COUGAR AP3008

ELECTRICAL SPECIFICATION @ VDD= +15 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit	Actual Result
Operating Frequency	BW	500		3000	MHz.	
Gain	G	10.5	12.5		dB.	11
Gain Flatness	Δ G		±0.6	± 0.9	dB.	0.5
Noise Figure (500-3000 MHz)	N.F.		4	5	dB.	5.9
Output Power	P 1dB	23	25		dBm.	24
Two Tone Intercept @ 10dBm output per tone	IP3		40		dBm.	42
IP2 @ P Out = + 10dBm	IP2		55		dBm.	60
VSWR in/out	S11/S22		1.6/1.8:1	2.0/2.0:1	Ratio	1.7:1
Operating Voltage	Vdc		15		Volt	15
Operating Current	Id		200		mA.	201

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	SMA Housing		
Cooling	None		
Monitor Connector	None		

PROTECTION

		Max	
RF Input Power		20	dBm.
Reverse Polarity Protection	N/A		
Load VSWR	Infinite up to 1W		
Stability	100% Tested		

ENVIRONMENTAL CHARACTERISTICS

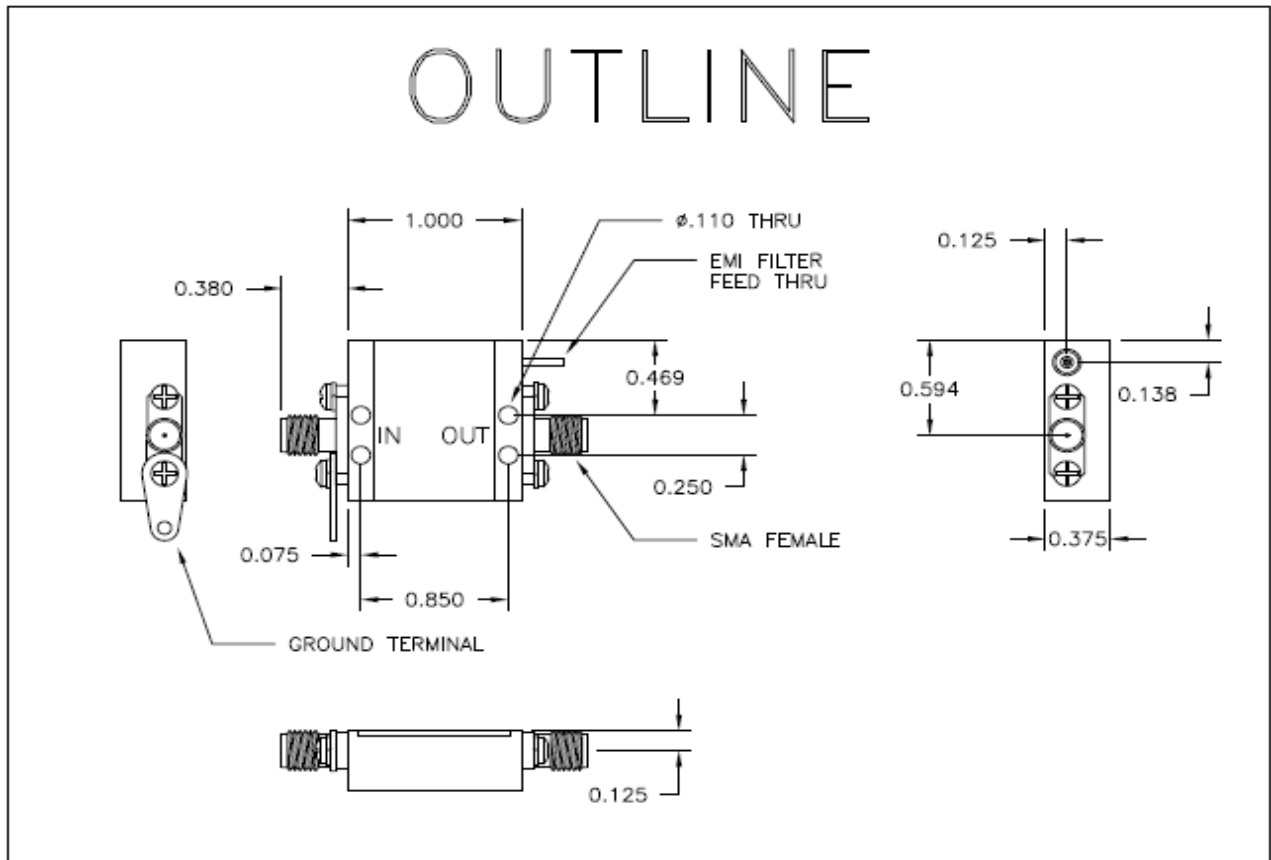
Parameter	Symbol	Min.	Typ.	Max.	Units
Operating Case Temperature	Tc	-55C		85C	°C
Storage Temperature	Tstg	- 55C		120°C	°C

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Outline Drawing



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FUNCTIONAL BLOCK DIAGRAM

