

Wide Band RF Amplifier

- * Operating Frequency : 1- 3 GHz.
- * Saturated Power : 5W Psat Typical
- * Gain : 11 dB.
- * Operation Up to 28 Volts
- * Single Supply Voltage
- * No external components required



Description: Ultra Wideband Operation, WiMax, Test Instrumentation, All Purpose Power Amp

ELECTRICAL SPECIFICATION @ VDD= +28 VDC; Temp. = 25°C, 50Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1		3	GHz.
Gain	G	9	11		dB.
Gain Flatness	Δ G		±1.0	±1.5	dB.
Power Added Efficiency	PAE		30		%
Power Output	Psat	35	37		dBm.
Output 3rd Order Intercept Point * Linear region	OIP3	40	45		dBm.
Return Loss in/out	S11/S22	2.2:1	2.0:1		Ratio
Operating Voltage	Vdc		28		Volts
Operating Current	Id		500	700	mA.

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	.625 sq		inches

PROTECTION

	Max	
RF Input Power	30	dBm.
Reverse Polarity Protection		
Load VSWR	5:01	RATIO
Stability	Unconditional	

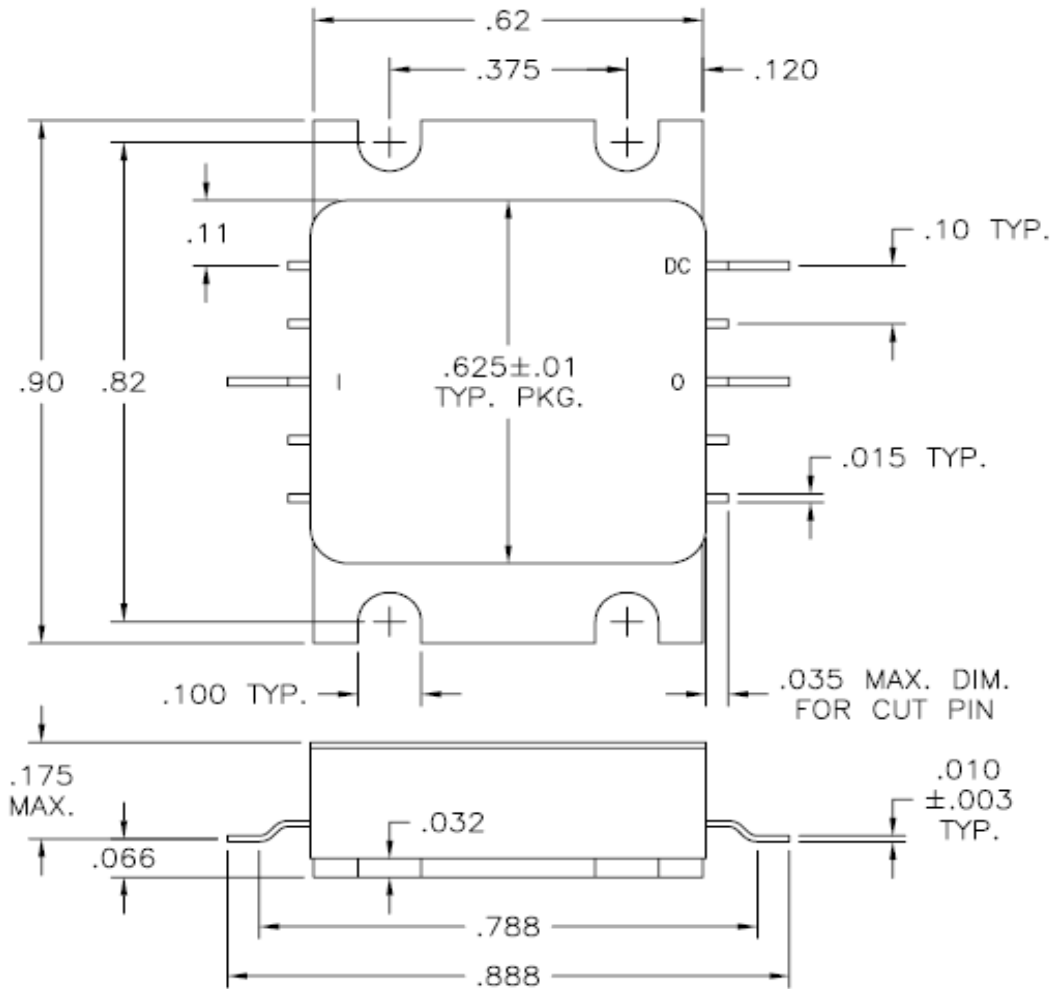
ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	0		75	°C
Storage Temperature	Tstg	-55		125°C	°C

3009 Old State Road, Telford, PA 18969

Web: www.amplifiersolutions.com
 Email: sales@amplifiersolutions.com

Tel: 215-799-2561
 Fax: 215-799-2563

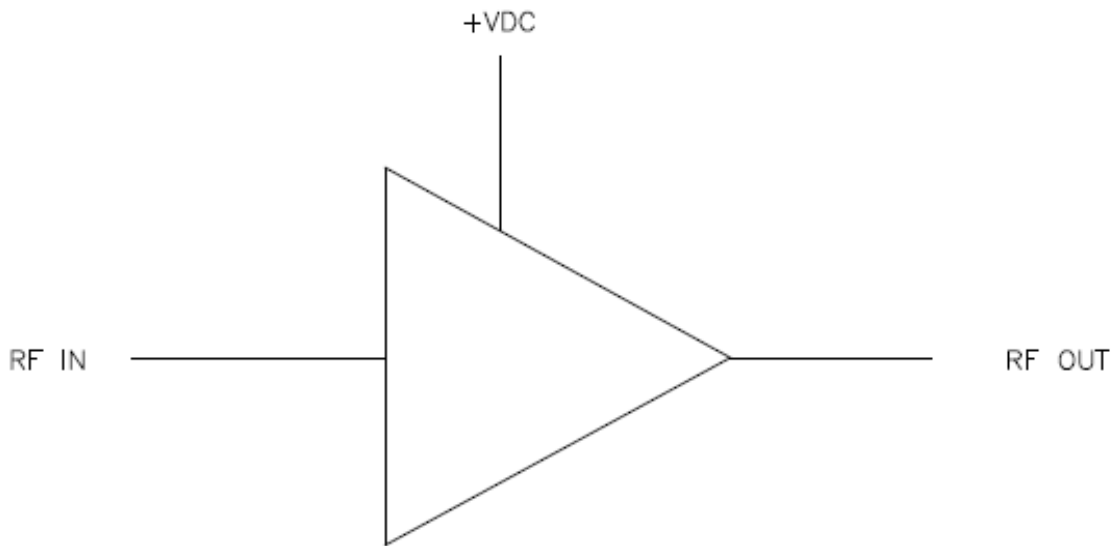


3009 Old State Road, Telford, PA 18969

Web: www.amplifiersolutions.com
 Email: sales@amplifiersolutions.com

Tel: 215-799-2561
 Fax: 215-799-2563

FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED