

RF Power Amplifier Preliminary Specification

- * Operating Frequency : 1000-1400 MHz.
- * Power Output: 5 Watts
- * Gain : 14 dB.
- * Operation 28 Volts
- * No external components required

Description: All Purpose Class AB Linear Power Amp

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

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	1000		1400	MHz.
Gain	G	12	15	17	dB.
Gain Flatness	ΔG		± 1.5	± 1.8	dB.
Power Output	P 1 dB	35	37		dBm.
Input return loss	S11		1.8:1	2.5:1	Ratio
Operating Voltage(+V)	Vdc	27.5	28	28.5	Volt
Operating Current	Idq	0.18	0.9	1.5	A
Bias Voltage(Pin C)		4.9	5	5.1	Volt

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
RF Connectors IN/OUT	Edge pin		
DC Connectors	Edge pin		

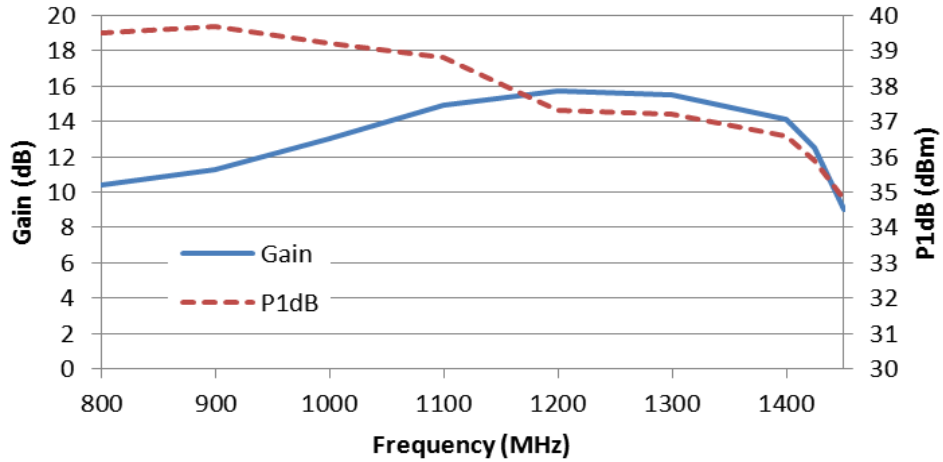
PROTECTIONS

	Max	Units
RF Input Power	23	dBm.
Reverse Polarity Protection		
Load VSWR	5:01	RATIO

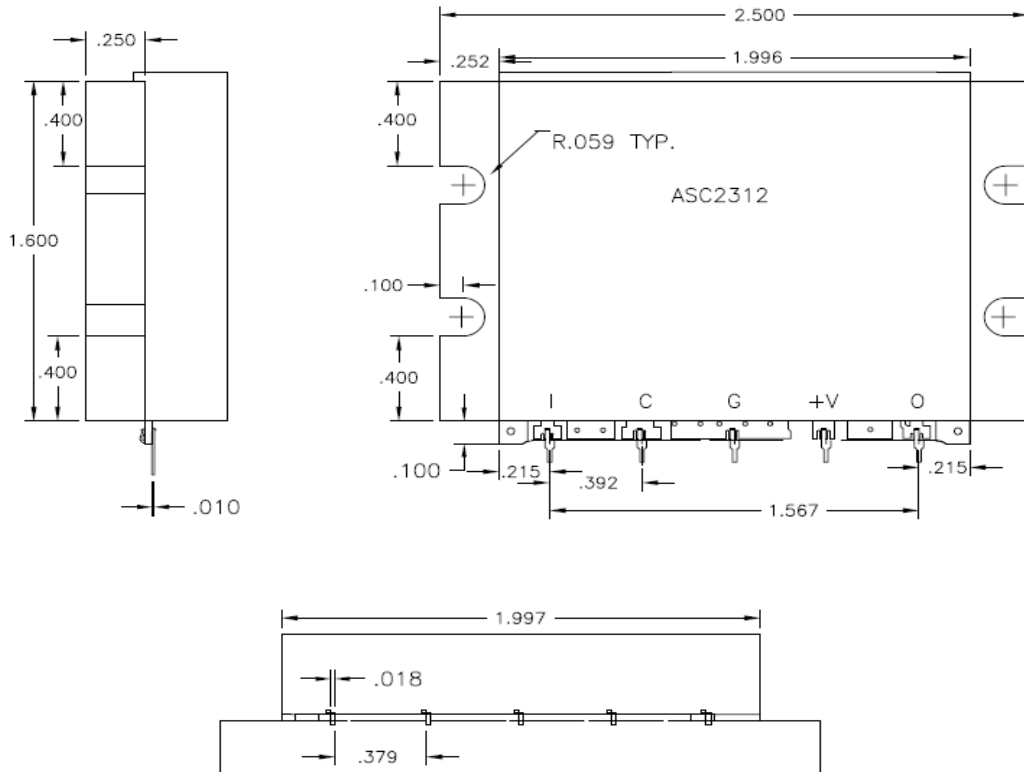
ENVIROMENTAL CHARACTERISTICS

Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	-20		70	°C
Storage Temperature	Tstg	-55		125°C	°C

Typical Performance



Outline Drawing



3009 Old State Road, Telford, PA 18969

FUNCTIONAL BLOCK DIAGRAM

