

RF Power Amplifier Preliminary Specification

- * Operating Frequency : 1330-1390 MHz.
- * Power Output: 20 Watts
- * Gain : 20 dB.
- * Operation 28 Volts
- * Single supply voltage
- * 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	1330		1390	MHz.
Gain	G	19	20	22	dB.
Gain Flatness	ΔG		± 5	± 1	dB.
Power Output	P 1 dB	42	43		dBm.
Input return loss	S11		1.8:1	2.5:1	Ratio
Operating Voltage	Vdc	27.5	28	32	Volt
Operating Current	Id	0.18	1.4	2	A
Amplifier RF Disable Function, Isolation rel. to "On"		50	60		dB.
Amplifier RF Disable Function, switching speed			60	150	nS

MECHANICAL SPECIFICATION

Parameter	Description	Limits	Units
Dimension	TBD		inches
RF Connectors IN/OUT	Edge pin		
DC Connector	Edge pin		
RF Enable/disable	Edge pin		

PROTECTIONS

	Max	
RF Input Power	25	dBm.
Reverse Polarity Protection		
Load VSWR	5:01	RATIO

ENVIROMENTAL CHARACTERISTICS

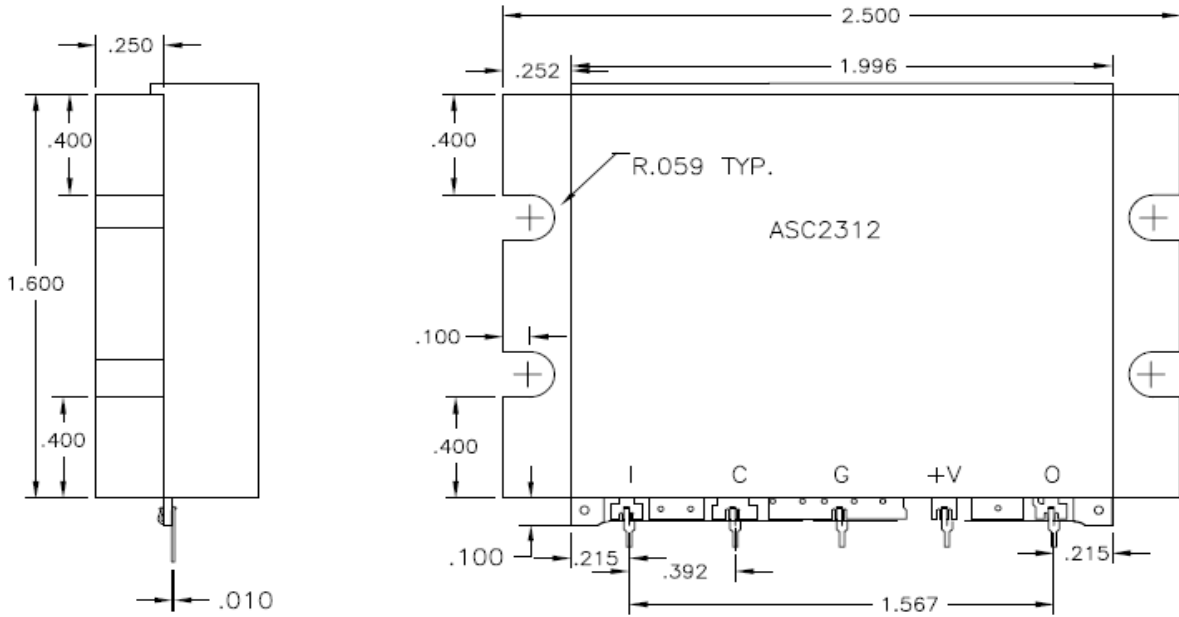
Parameter	Symbol	Min.	Typ.	Max	Units
Operating Case Temperature	Tc	-20		70	°C
Storage Temperature	Tstg	-55		125°C	°C

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Outline Drawing

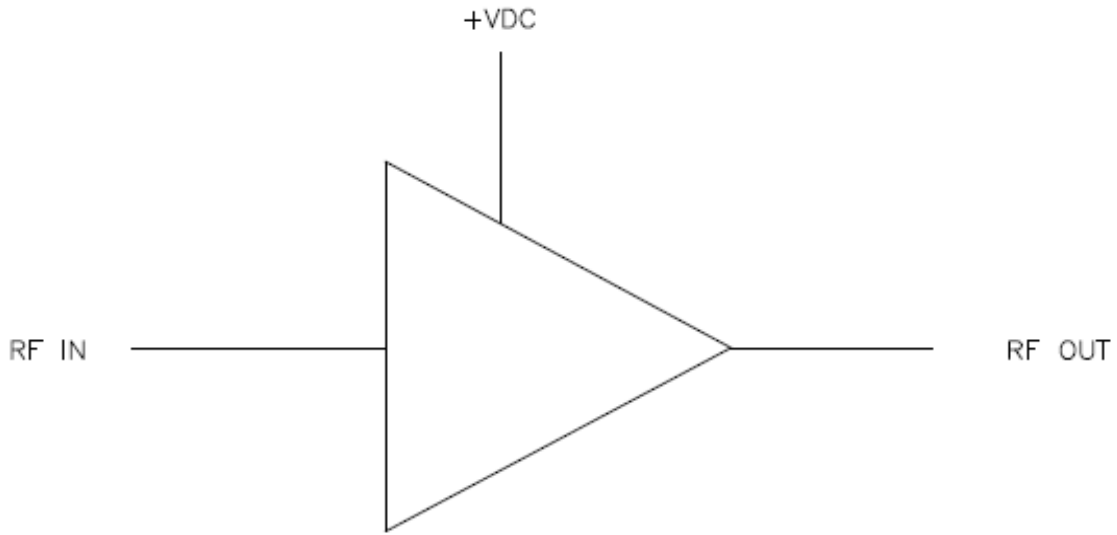


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FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED

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