BROADBAND LOW NOISE AMPLIFIER
ABL1800-06-2830

Features:

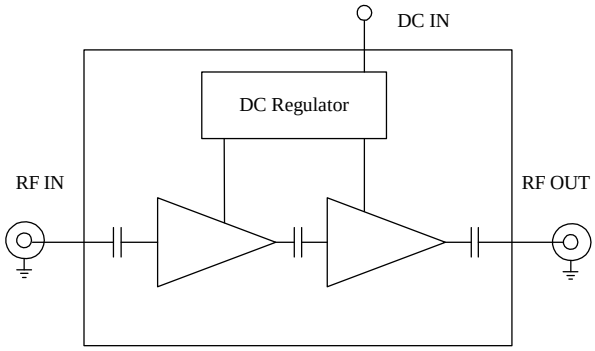
- Broad band, low noise, high gain
- Low VSWR, unconditional stable
- Small size, low cost
- SMA female connector RF I/O
- Single DC power supply required
- Operating temperature -40~+85°C, storage temperature -55~+85°C

Electrical Specifications

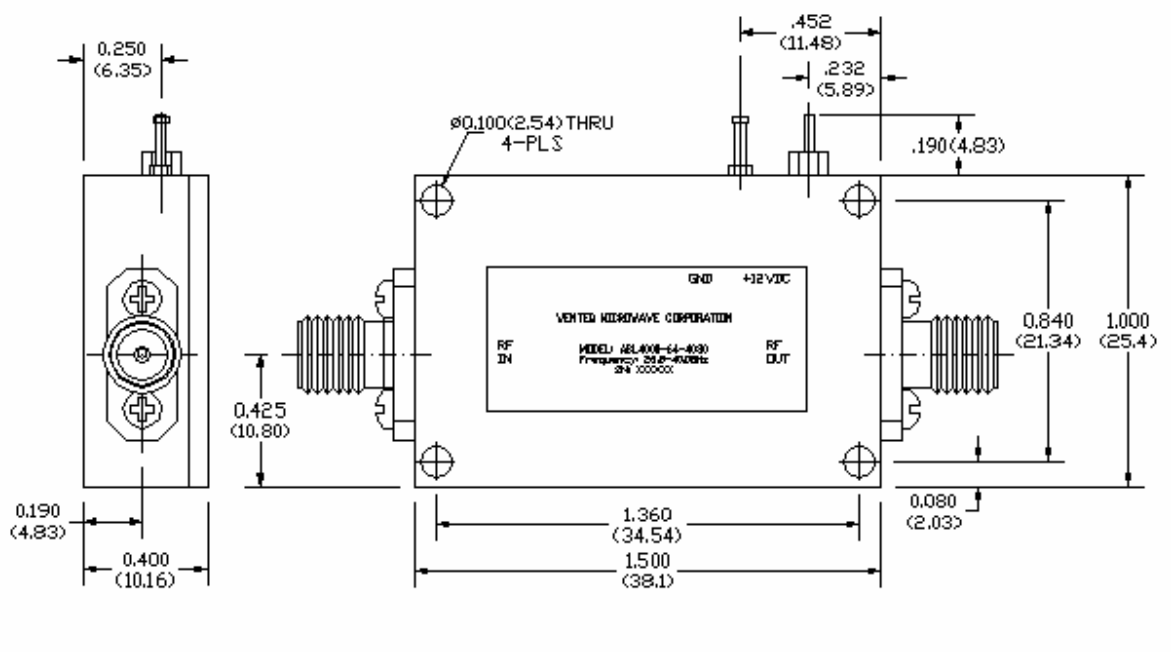
Parameters		Specifications		
		Minimum	Typical	Maximum
Frequency Range	GHz	1.0		18.0
Nominal Gain @25°C base plate temperature	dB	25.0	28.0	31.0
Noise Figure	dB		3.0	4.5
P-1dB Compression Point	dBm	14.0	16.0	
Psat at Output	dBm	16.0	18.0	
Output IP3	dB m	27.0	28.0	
Gain flatness	dB		+/-2.0	+/-2.5
Gain Variation over Temperature Range	dB		+/-1.5	
Reverse Isolation	dB	40.0	50.0	
Input VSWR	-		1.5:1	2.0:1
Output VSWR	-		1.7:1	2.0:1
Spurious	dBc		60.0	
Operating Temperature	°C	-40.0		+75.0
Survival Temperature	°C	-45.0		+125.0
DC Power Supply Voltage	V	+10.0	+12.0	+15.0
DC Power Supply Current	mA	130.0	160.0	190.0
RF In/Out connectors		50 ohm SMA female		
DC Input Connector		Feedthru Pin		
Size	inches	1.50×1.0×0.4		

138 W Pomona Ave, Monrovia, CA 91016
Phone: (626) 305-6666, Fax: (626) 602-3101, sales@wenteq.com, www.wenteq.com

Functional Diagram



Mechanical Structure:



Note: All units in inches.

Absolute Maximum Ratings

DC Voltage	+18V
RF Input Power	+10 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+85°C