

Features:

- Broadband, high gain and high power output
- Low VSWR, unconditional stable
- SMA female connector I/O
- Single DC power supply required
- Operating temperature -40~+75°C, storage temperature -55~+85°C

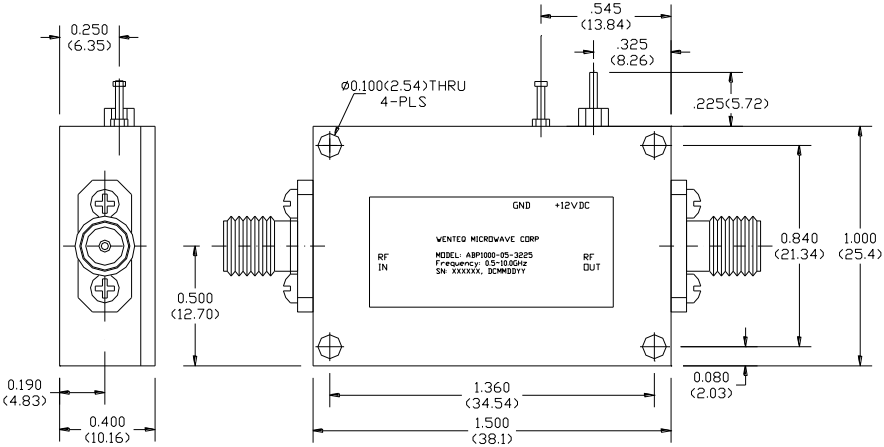
General Description

ABP1800-01-3426 is a two stage MMIC broadband power amplifier module operating in the frequency of 100MHz to 18GHz. The amplifier provides 34dB of small signal gain, +26dBm of typical output power at 1dB gain compression. It has excellent gain flatness and good VSWR at both input and output. The amplifier requires only a single positive DC power supply, its built-in DC voltage regulator and internal sequencing circuitry makes the application more robust.

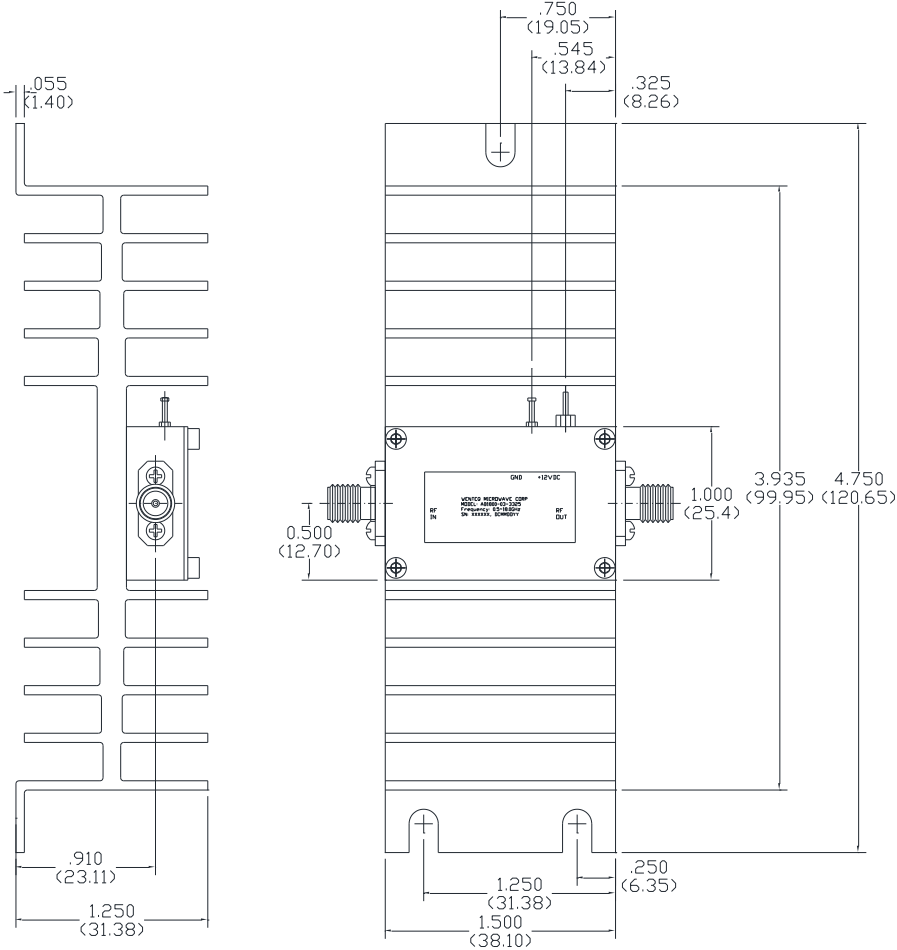
Electrical Specifications

Parameters	Units	Specifications		
		Minimum	Typical	Maximum
Frequency Range	GHz	0.1		18.0
P-1dB Compression Point	dBm	+25.0	+26.0	
Saturated Output Power	dBm	+26.0	+27.5	
Output IP3	dBm	+30.0	+37.0	
Nominal Gain @25°C	dB	31.0	34.0	37.0
Gain flatness over frequency	dB		+/-1.5	+/-2.0
Gain Variation over Temperature	dB		+/-2.0	
Noise Figure at 25 degree C	dB			
0.1~1.0GHz			4.0	5.5
1.0~5.0GHz			3.0	4.0
5.0~16.0GHz			2.5	3.5
16.0~18.0GHz			3.0	4.5
Input VSWR			1.5:1	2.3:1
Output VSWR			1.5:1	2.3:1
Spurious	dBc			-70.0
Operating Temperature	°C	-40.0		+75.0
Survival Temperature	°C	-45.0		+85.0
DC Power Supply Voltage	V	11.5	+12.0	+15.0
DC Power Supply Current	mA	350	420	550
In/Out connectors		SMA female		
Outline dimensions of ABP1800-01-3426 (without heatsink)	inches	1.5x1.0x0.4		
Outline dimensions for ABP1800-01-3426-X (with heatsink)	inches	1.5x4.75x1.25		

Mechanical Structure:



(a) ABP1800-01-3426 amplifier without heatsink



(a) ABP1800-01-3426-X amplifier with heatsink

Note: All units are in inches(mm), and all tolerances are +/-0.005 inch unless otherwise specified

Absolute Maximum Ratings

DC Voltage	+18V
RF Input Power	10 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+75°C



WARNING: This device is electrostatic sensitive, please observe precautions for safe handling this amplifier.

WARNING: This product can expose you to chemicals including Nickel (Metallic) and Gallium Arsenide which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.