BROADBAND POWER AMPLIFIER
ABP1200-01-3225

Features:

- Broad band operation from 0.1 GHz to 12.0 GHz
- Low VSWR, unconditional stable
- SMA female connector I/O.
- Single DC power supply, internal voltage regulator, operating voltage from +11~+13V
- Operating temperature -40~+75°C, storage temperature -55~+125°C

General Description

ABP1200-01-3225 is a two stage MMIC broadband power amplifier module operating in the frequency of 100MHz to 12GHz. The amplifier provides 32dB of small signal gain, +25dBm of 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		12.0
Small Signal Gain @25°C	dB	29.0	32.0	35.0
Noise Figure @25°C	dB		3.0	5.0
P-1dB Compression Point	dBm	+24.0	+25.0	
Output IP3	dBm	+30.0	+33.0	
Gain flatness	dB		+/-1.0	+/-1.5
Gain Variation	dB		+/-2.5	
Input VSWR			1.8:1	2.0:1
Output VSWR			1.8:1	2.0:1
Reverse Isolation	dB	45.0		
Non-Harmonic Spurious	dBc			-70.0
Operating Temperature	°C	-45		+75
Survival Temperature	°C	-55		+125
DC Voltage	V	+11.0	+12.0	+13.0
DC Supply Current	mA	350 mA	375 mA	450 mA
In/Out connectors		SMA Female		
Size	inches	1.5”x1.0”x0.4”		

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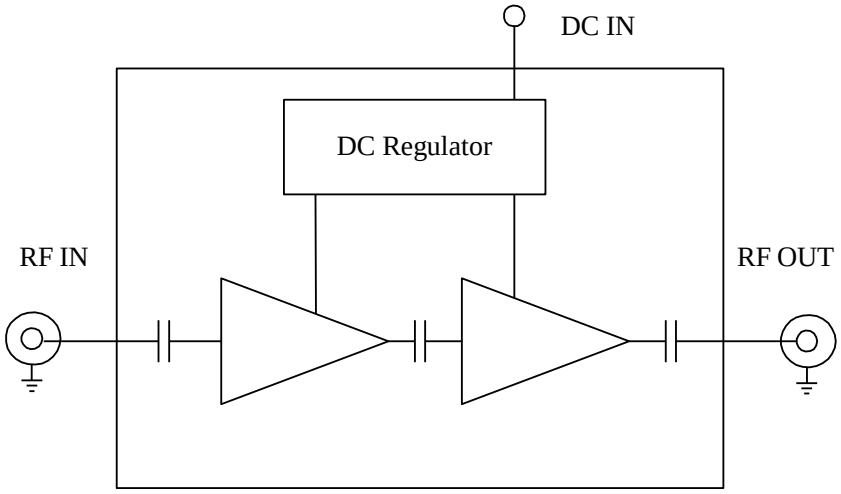
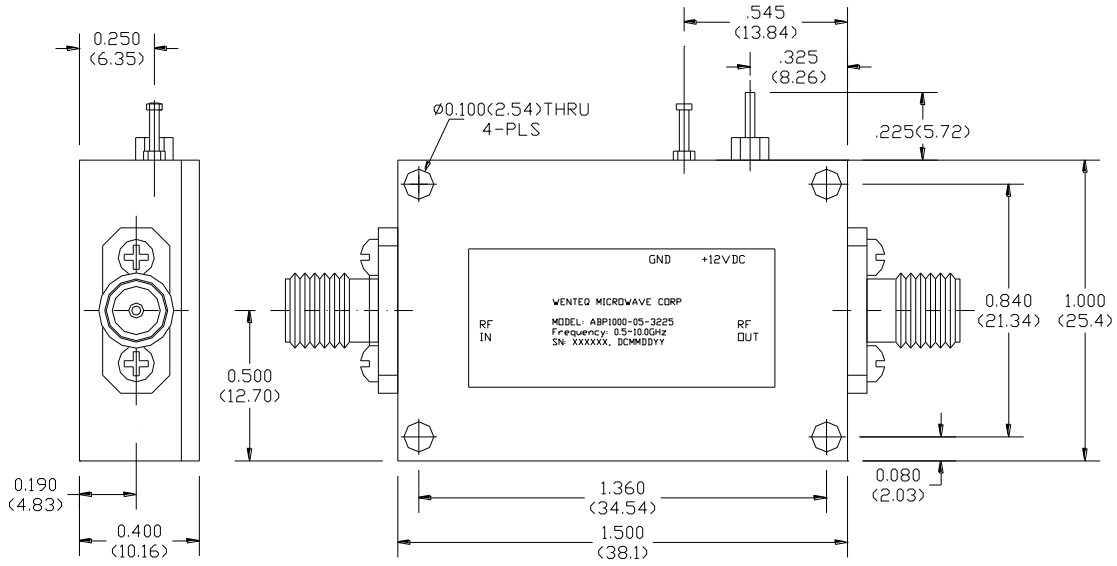
Functional Diagram



Mechanical Structure:



Note: All units in inches.

Absolute Maximum Ratings

DC Voltage	+13V
RF Input Power	10 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+75°C