MICROWAVE POWER AMPLIFIER
ABP4400-41-3526

Features:

- Broadband operation from 18 to 44 GHz
- High gain, medium power output
- Low VSWR, unconditional stable
- K-female connector I/O
- Single DC power supply, built in voltage regulator and reverse voltage protection
- Operating temperature -40~+75°C, storage temperature -55~+85°C

General Description

ABP4400-41-3526 is a two stage MMIC based broadband power amplifier module operating in the frequency of 18 to 44GHz. The amplifier provides 35dB of small signal gain, +26dBm 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, as well as inverse voltage protection circuitry makes the application more robust.

Electrical Specifications

Parameters	Units	Specifications		
		Minimum	Typical	Maximum
Frequency Range	GHz	18.0		44.0
P-1dB Compression Point	dBm	+22.0	+26.0	
Output IP3	dBm	+28.0	+33.0	
Nominal Gain @25°C	dB	30.0	35.0	40
Gain flatness over frequency	dB		+/-2.5	+/-3.0
Gain Variation over Temperature	dB		+/-2.0	+/-2.5
Noise Figure at 25 degree C	dB		3.5	5.0
Input VSWR			2.0:1	3.0:1
Output VSWR			2.0:1	3.0:1
Spurious	dBc			-60.0
Operating Temperature	°C	-40.0		+75.0
Survival Temperature	°C	-45.0		+125.0
DC Power Supply Voltage	V	+7.5	+9.0	+10.0
DC Power Supply Current	mA		1100	1800
In/Out connectors		SMA female		
Size	inches	1.5x1.2x0.45		

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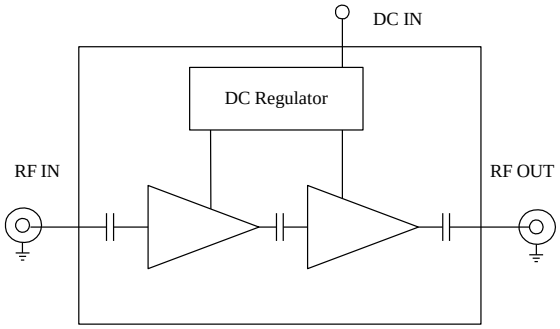
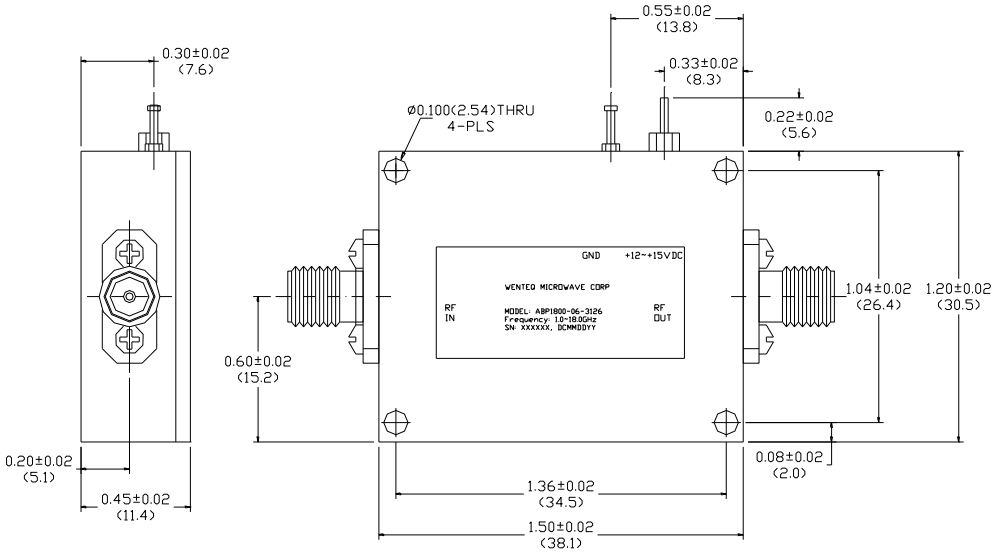
Functional Diagram



Mechanical Structure:



Note: All units in inches (mm).

Absolute Maximum Ratings

DC Voltage	+11V
RF Input Power	15 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+75°C

Electrostatic sensitive device, please observe precautions for handling this amplifier.

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