



DESCRIPTION

AMCOM's AM151730PA-P2 is a Power Amplifier module. It is designed for general purpose applications. It operates from 1500 MHz to 1700 MHz. The module operates using a +12V supply and uses SMA connectors for input and output.



FEATURES

- Frequency Range: 1500-1700MHz
- Gain: 33dB
- Pout: +30dBm (1Watt)
- IP3: +40dBm
- Noise Figure: 1.5dB
- DC Power: +12V
- DC Reverse Protected
- Internal Voltage Regulated
- SMA Connector

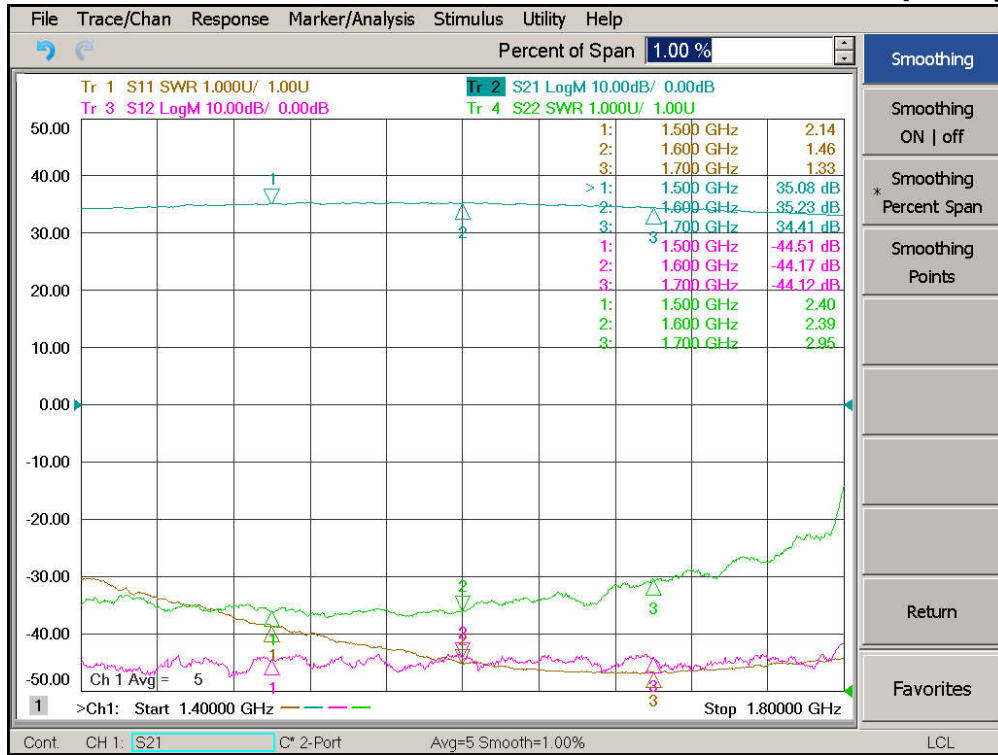
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

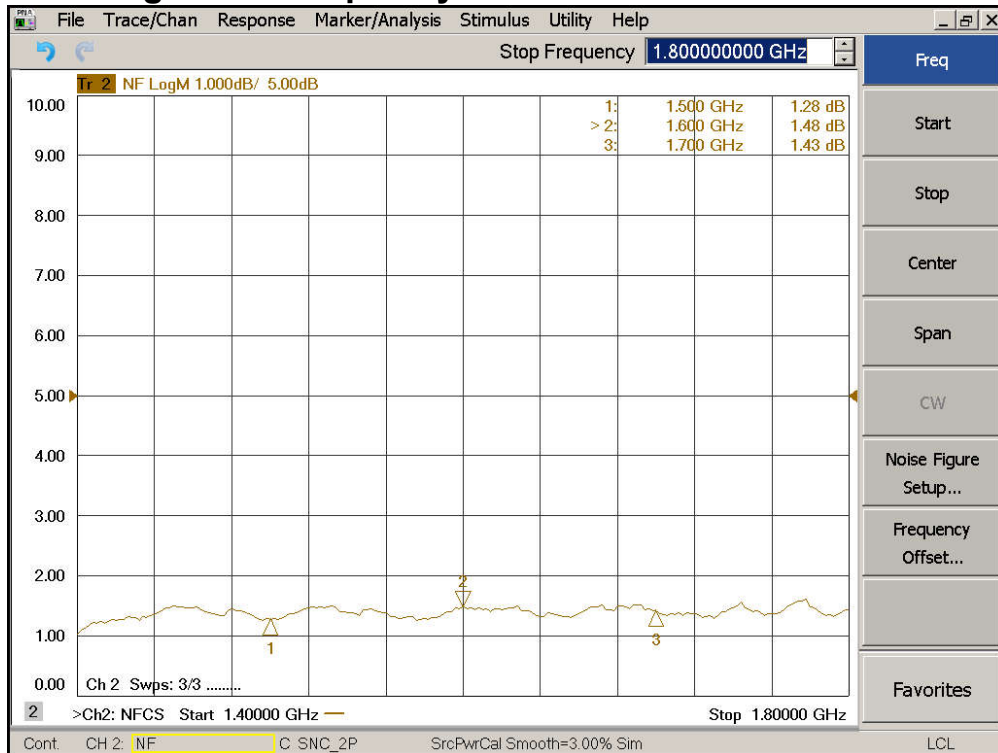
Electrical Specifications @ +25°C, $Z_{IN} = Z_{OUT} = 50\Omega$, DC Supply = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1500		1700
Small Signal Gain S_{21} $f = 1600\text{MHz}$	dB	32	33	
Gain Flatness	dB		± 0.5	± 1.0
Output Power P_{3dB} $f = 1600\text{MHz}$	dBm	+29	+30	
Output IP3 $f = 1600\text{MHz}$	dBm	+38	+40	
Reverse Isolation S_{12}	dB	-40	-43	
Noise Figure	dB		1.5	2.0
VSWR Input VSWR S_{11} Output VSWR S_{22}			1.5:1 2.5:1	2.5:1 3.5:1
DC Power Supply	V	9	12	15
Quiescent Current with No Input	mA		600	700
Current @ $P_{out} = +30\text{dBm}$	mA		800	950
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		
Weight	Oz.	8		

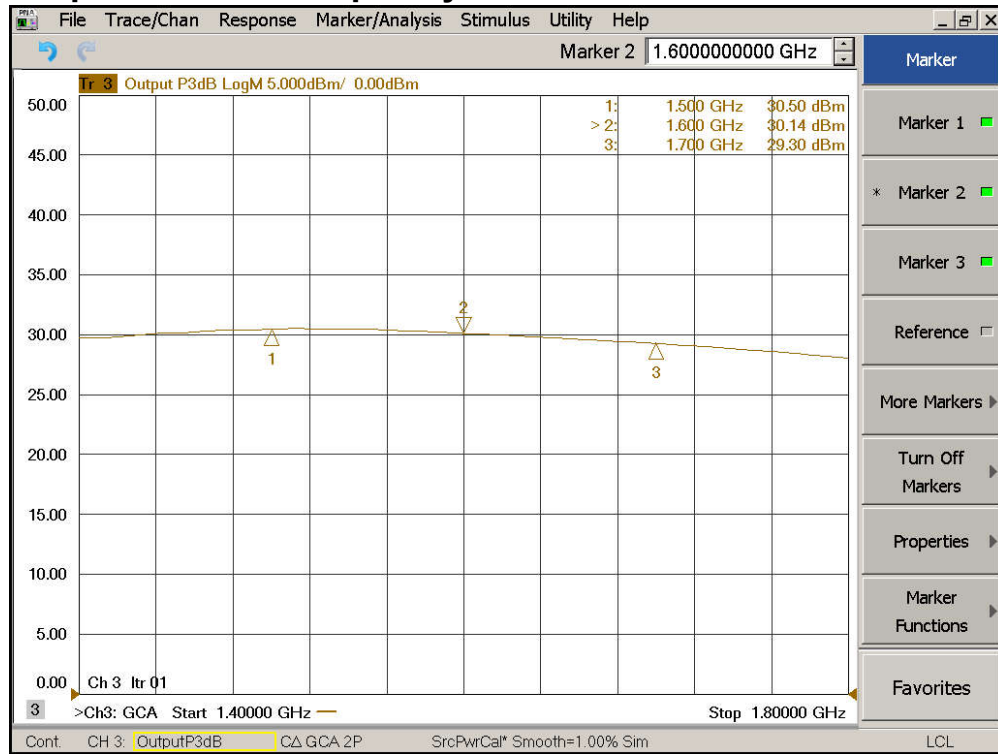
Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency



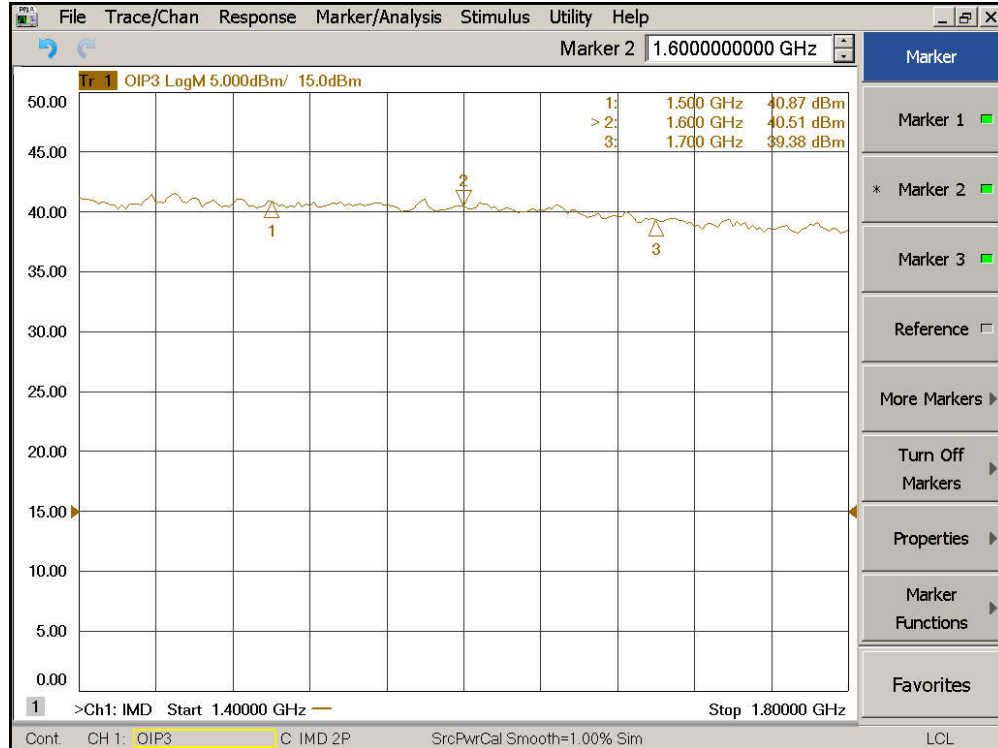
Noise Figure vs Frequency



Output P3dB vs Frequency



Output IP3 vs Frequency



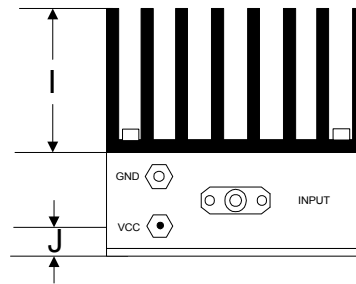
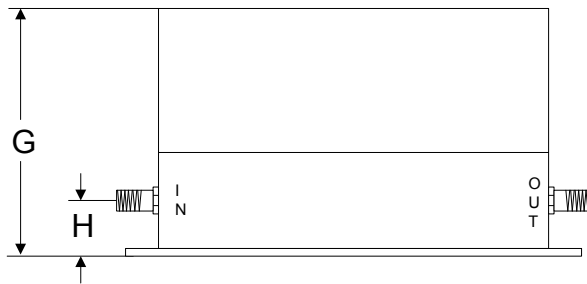
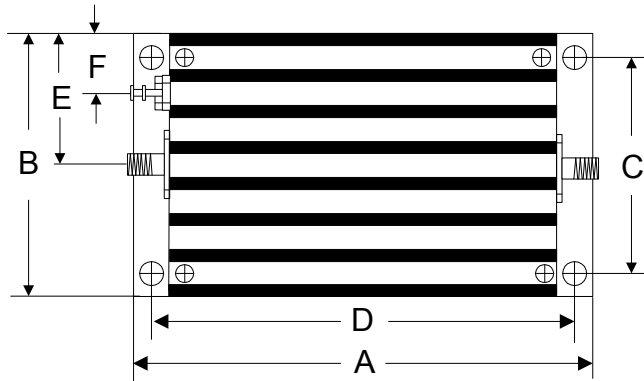
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+23dBm
DC Supply Voltage	+18V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

ESD Sensitive Material



Outline



	A	B	C	D	E	F	G	H	I	J
Inch	3.750	2.000	1.750	3.400	1.000	0.400	1.813	0.375	1.000	0.238
mm	92.25	50.80	44.45	86.36	25.40	10.16	46.05	9.53	25.40	6.03