



DESCRIPTION

AMCOM's AM206030PA-P2 is a Power Amplifier module. It is designed for general purpose applications. It operates from 2000 MHz to 6000 MHz. The module operates using a +28V supply and uses SMA connectors for input and output.



FEATURES

- Frequency Range: 2000-6000MHz
- Gain: 33dB
- Psat: +30dBm (1Watt)
- IP3: +40dBm
- Noise Figure: 4dB
- DC Power: +28V
- DC Reverse Protected

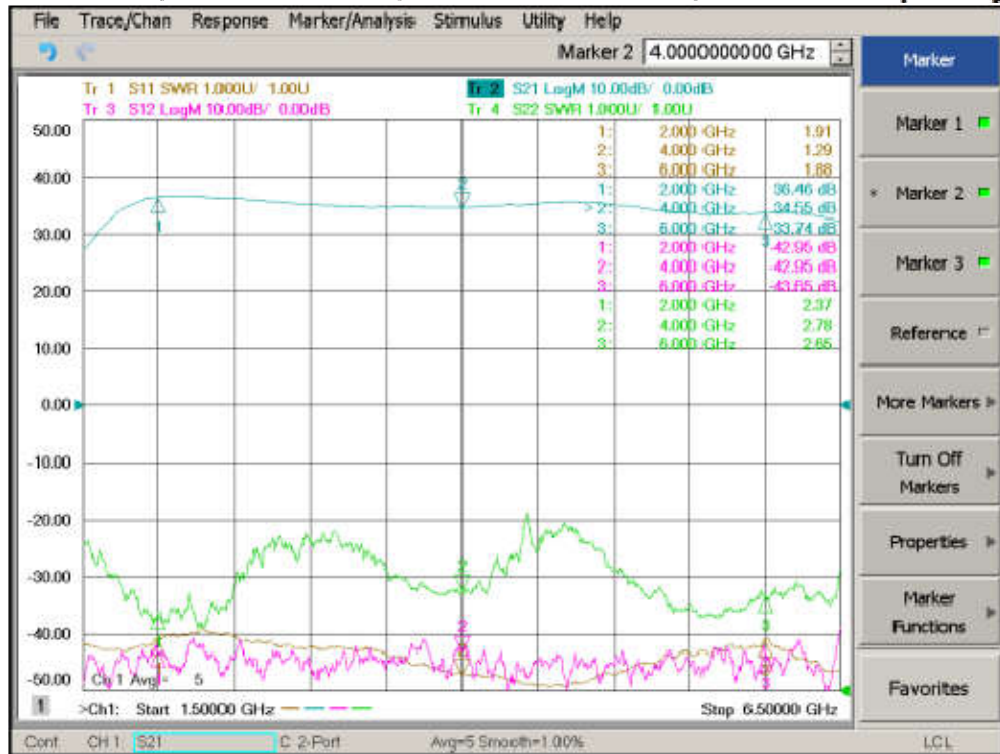
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

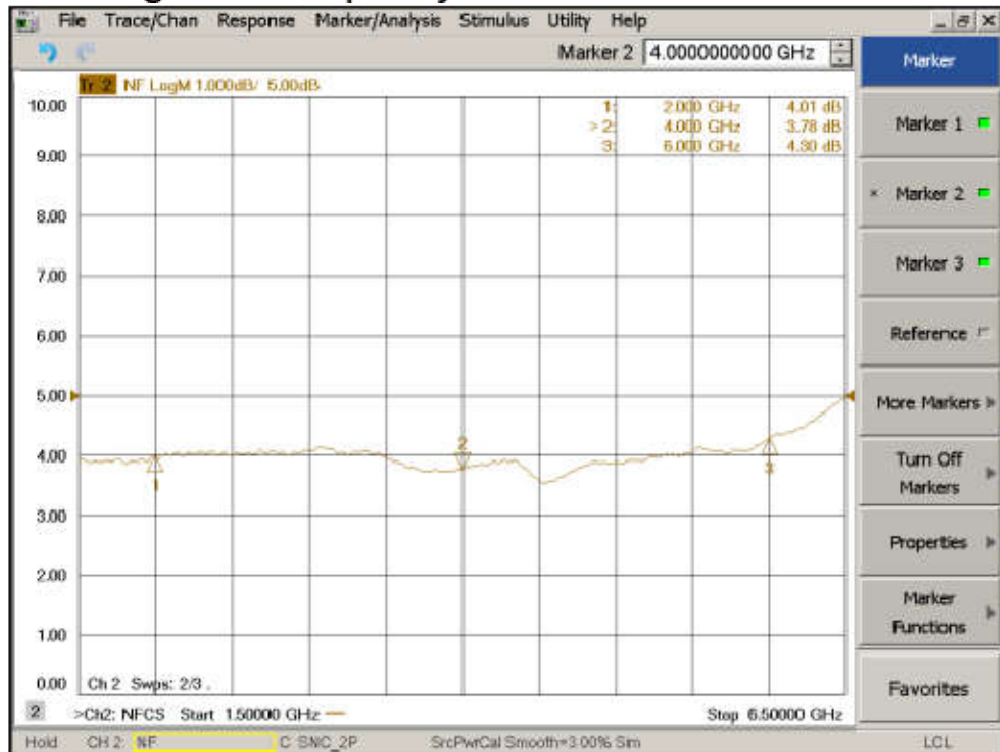
Electrical Specifications @ +25°C, $Z_{IN} = Z_{OUT} = 50\Omega$, DC Supply = +28V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2000		6000
Small Signal Gain S_{21} f = 4000MHz	dB	30	33	
Gain Flatness	dB		± 1.5	± 2.0
Output Power P_{sat} f = 4000MHz	dBm	+30	+32	
Output IP3 f = 4000MHz	dBm	+40	+42	
Reverse Isolation S_{12}	dB	-38	-43	
Noise Figure	dB		4.0	5.0
VSWR Input VSWR S_{11} Output VSWR S_{22}			2.0:1 2.5:1	2.5:1 3.5:1
DC Power Supply	V	26	28	30
Quiescent Current with No Input Current @ $P_{out} = +30dBm$	mA mA		180 330	220 450
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		
Weight	Oz.	8		

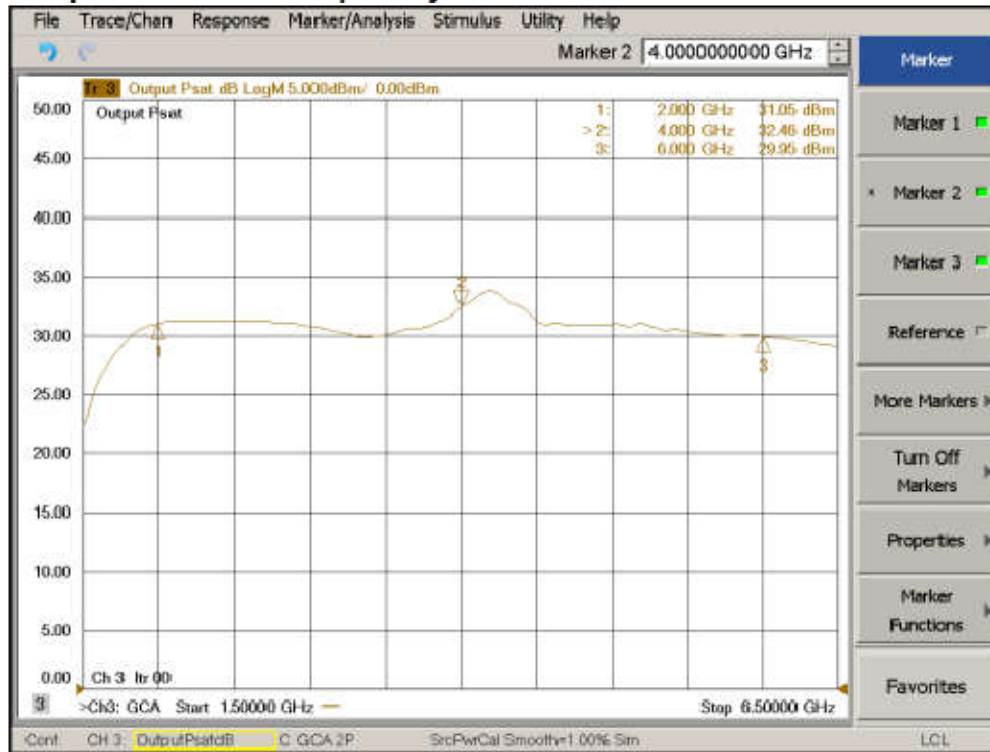
Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency



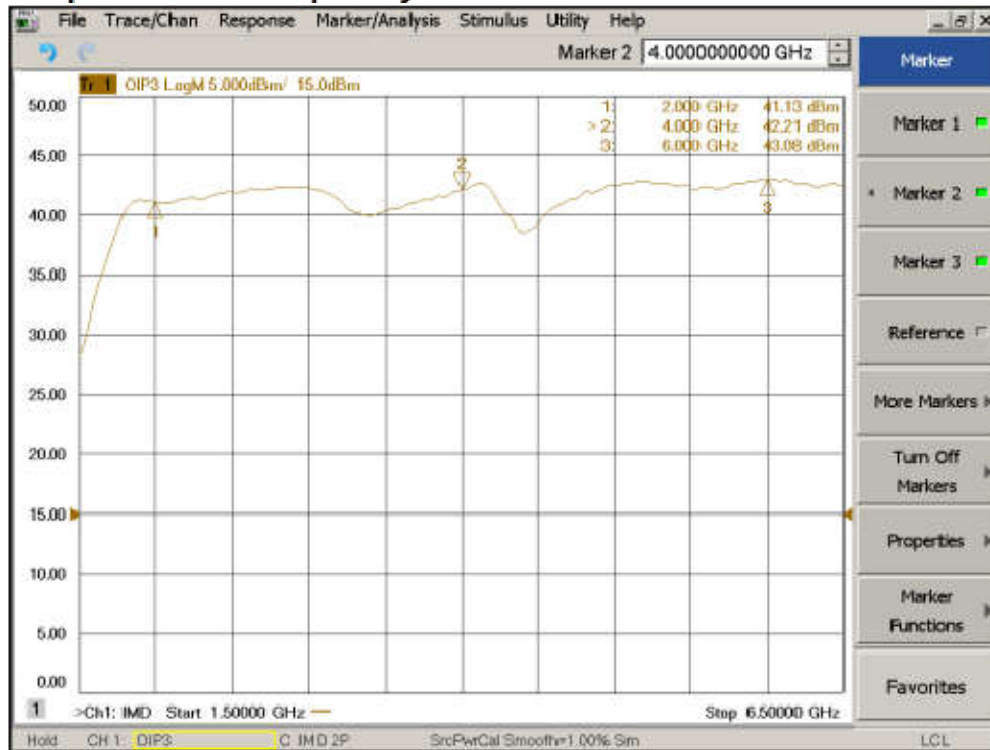
Noise Figure vs Frequency



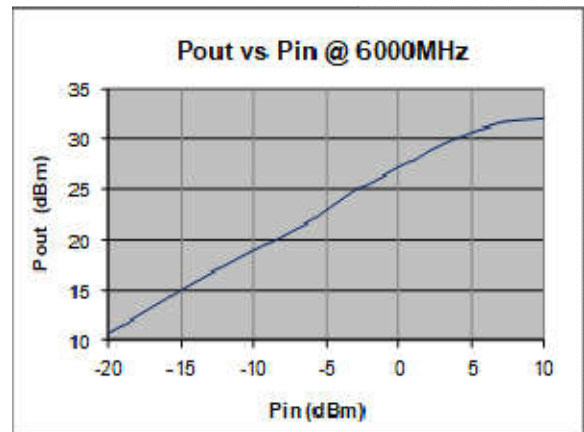
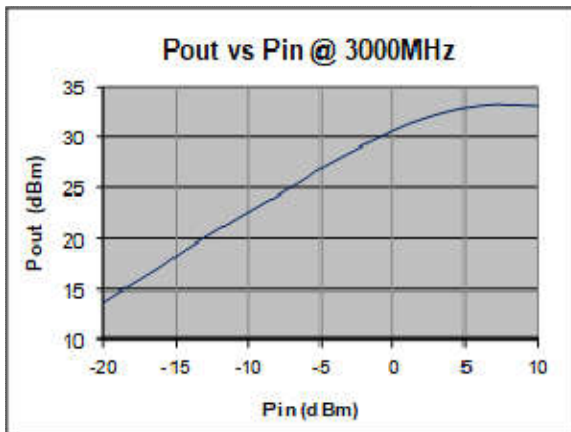
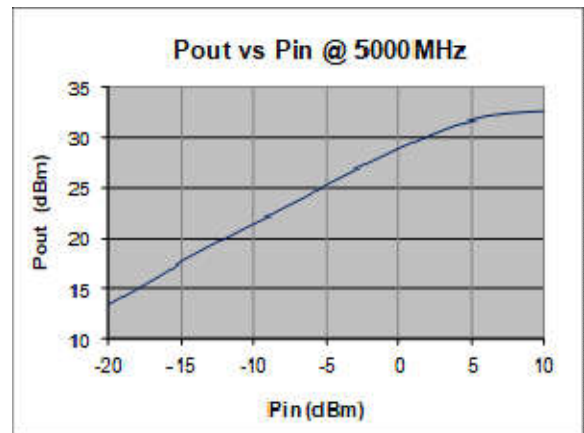
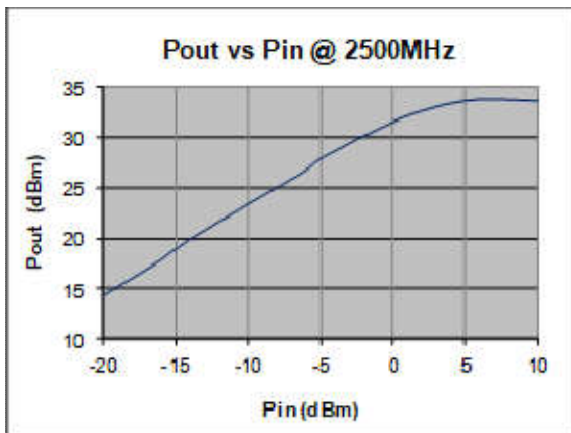
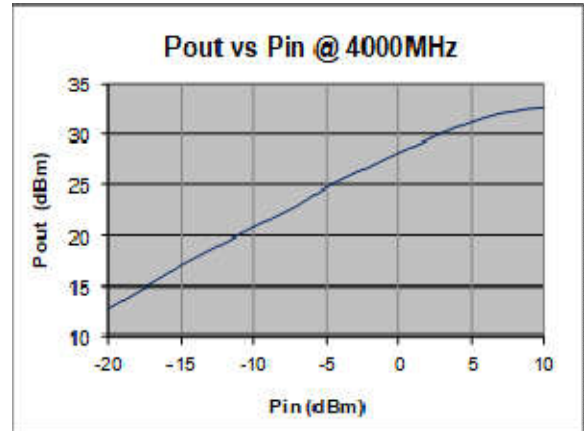
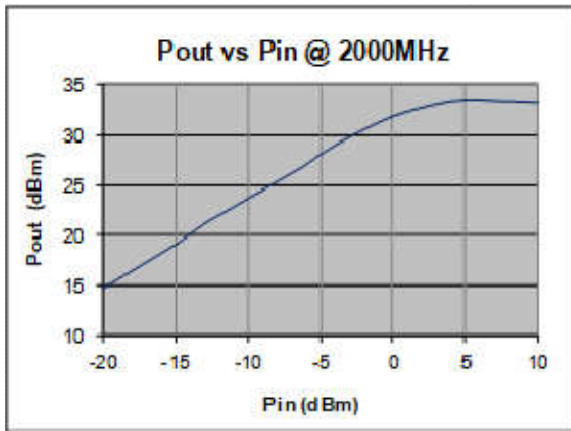
Output Pout vs Frequency



Output IP3 vs Frequency



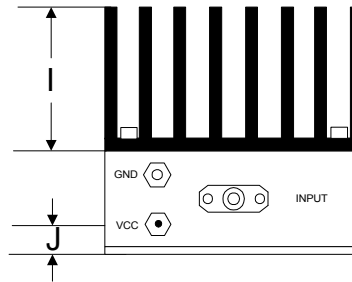
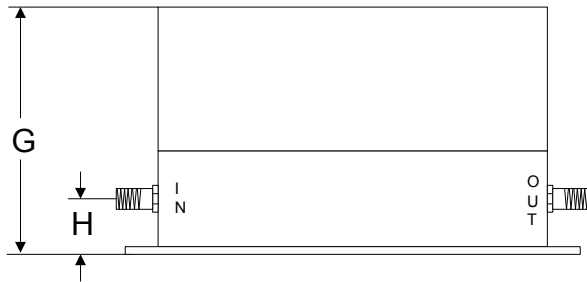
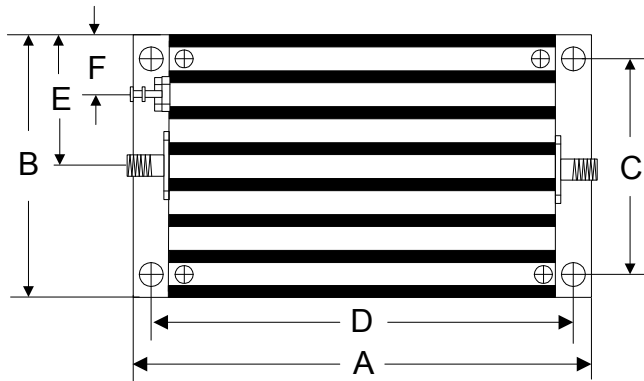
Typical Performance @ +25°C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
DC Supply Voltage	+32V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

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