



DESCRIPTION

AMCOM's AM001030PA-P2 is a Power Amplifier module. It is designed for general purpose applications. It operates from 2 MHz to 1000 MHz. The module operates using a 12 ~ 18V supply and uses SMA connectors for input and output.



FEATURES

- Frequency Range: 2-1000MHz
- Gain: 40dB
- P_{out}: +30dBm (1Watt)
- IP3: +45dBm
- Noise Figure: 4.2dB
- DC Power: 12 ~ 18V
- DC Reverse Protected
- Internal Voltage Regulated

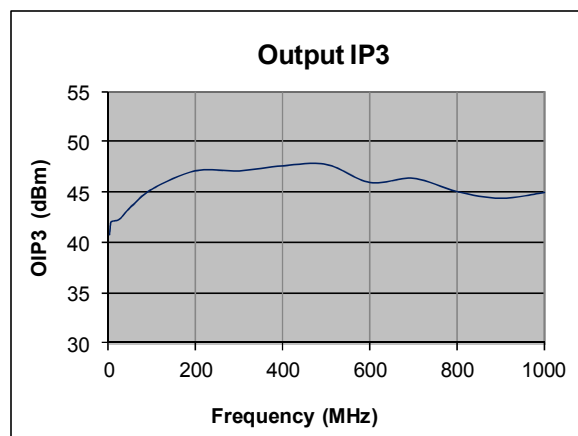
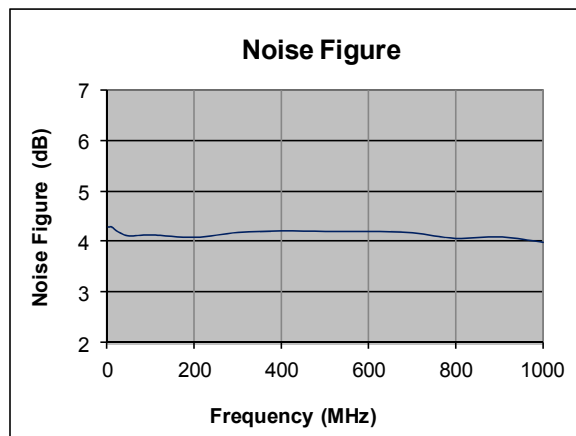
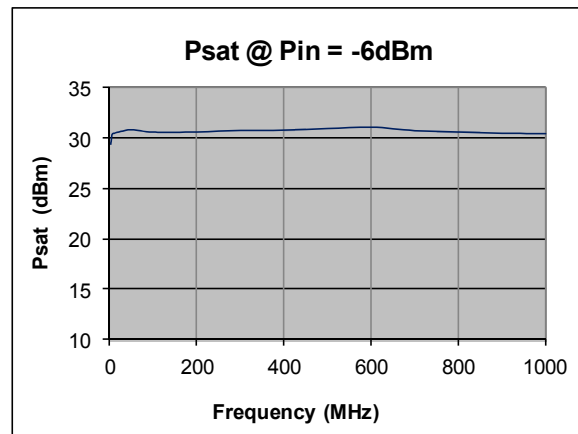
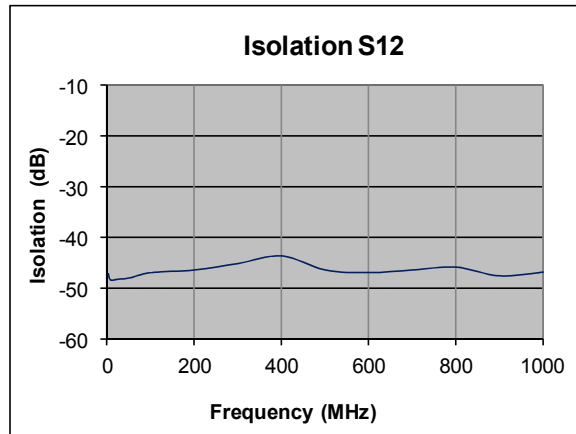
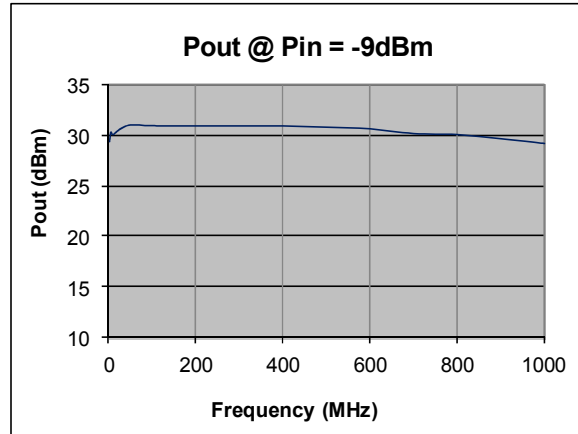
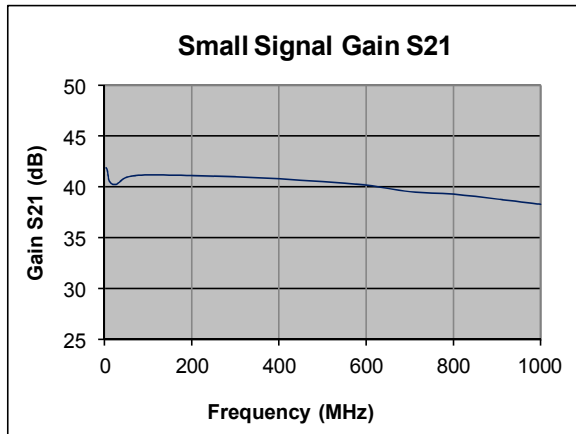
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

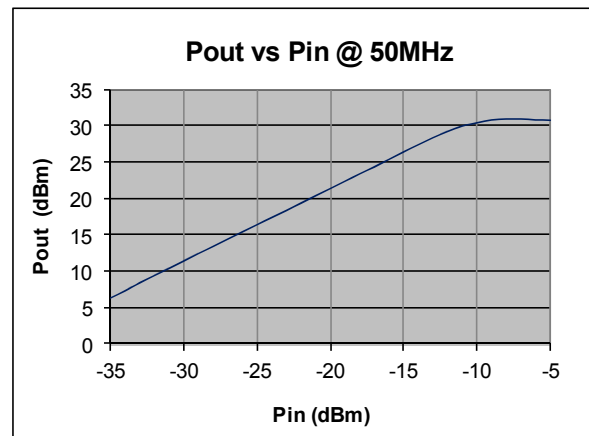
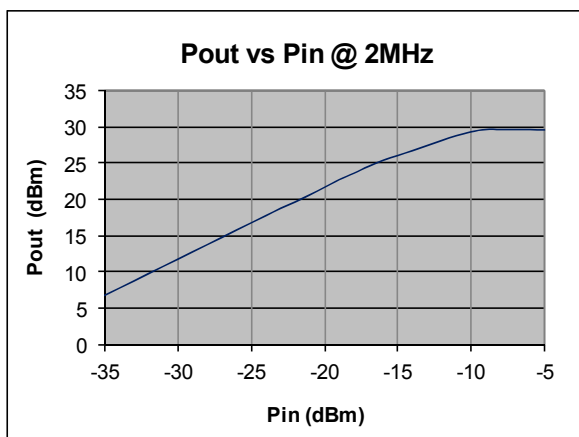
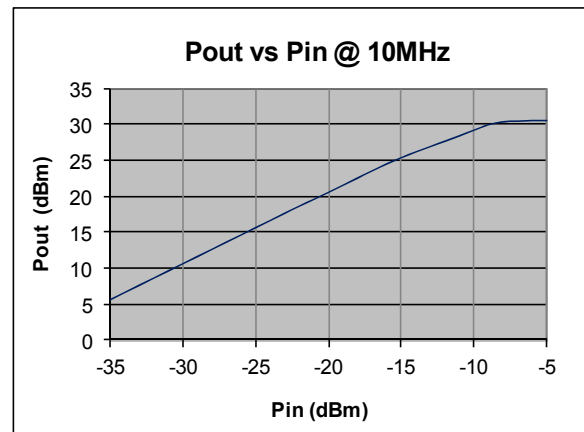
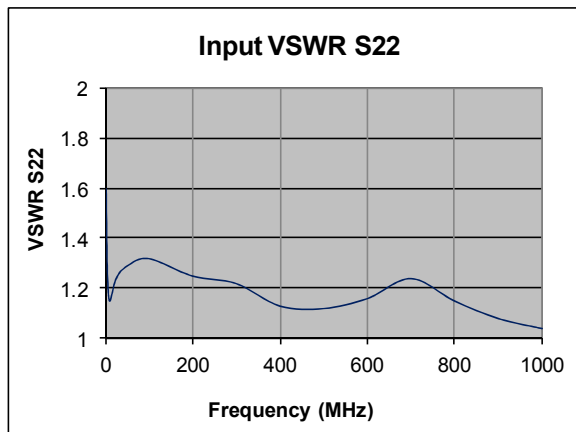
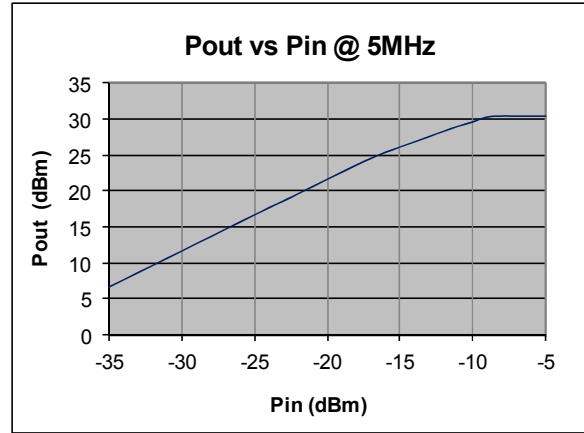
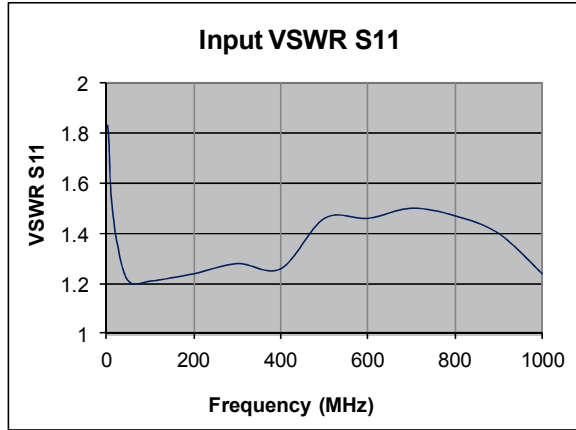
Electrical Specifications @ +25 °C, Z_{IN} = Z_{OUT} = 50 Ω, V_{SUPPLY} = +15V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2		6000
Small Signal Gain S ₂₁	dB		33	
Gain Flatness	dB		± 1.5	± 2.0
Output Power P _{out} @ P _{in} = -9dBm	dBm		+32	
Output IP3	dBm		+42	
Reverse Isolation S ₁₂	dB		-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	12	28	30
Quiescent Current with No Input	mA		180 330	220 450
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		
Weight	Oz.	8		

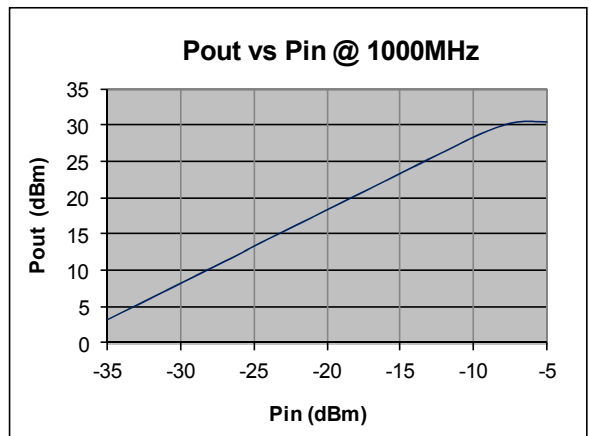
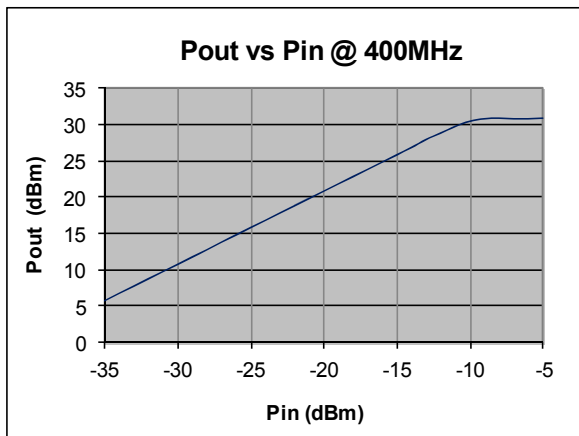
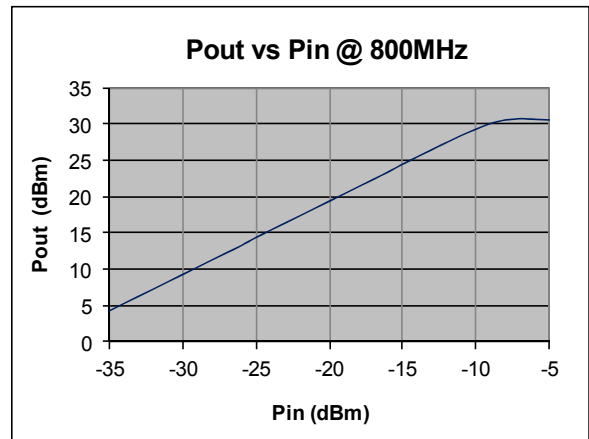
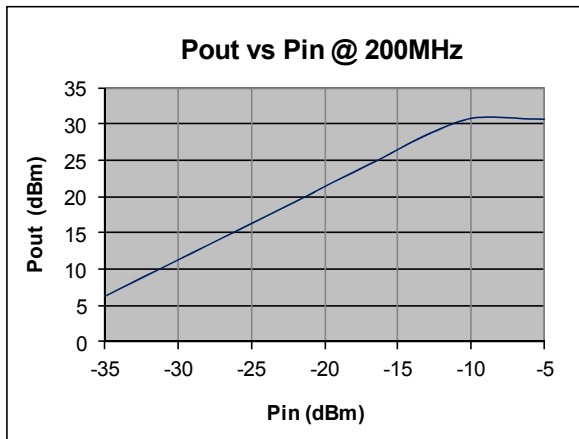
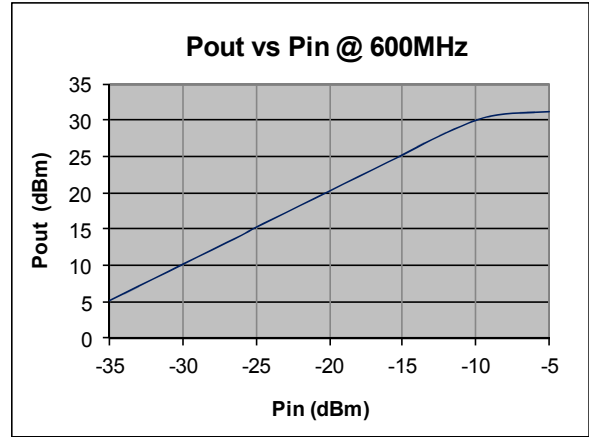
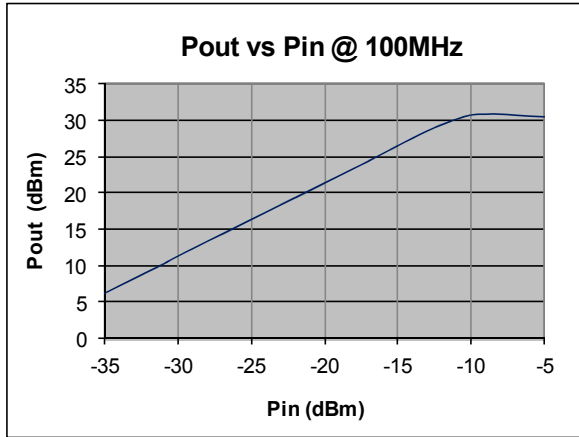
Typical Performance @ +25°C



Typical Performance @ +25°C



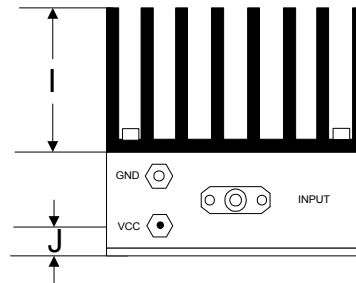
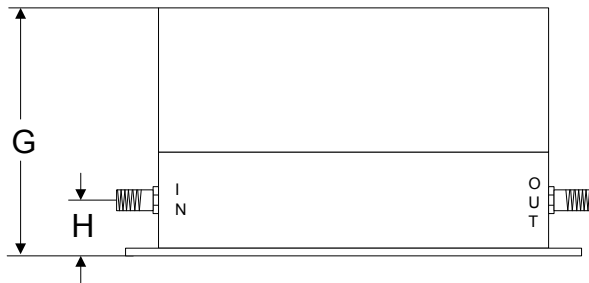
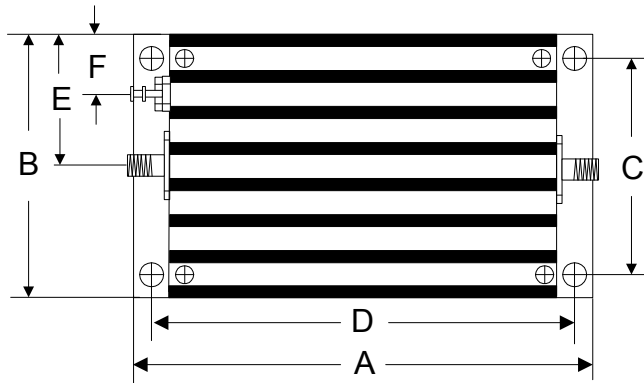
Typical Performance @ +25°C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+20V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +100 °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