



DESCRIPTION

AMCOM's AM081230PA-P2 is a Power Amplifier module. It is designed for general purpose applications. It operates from 750 MHz to 1150 MHz. The module operates using a 10 ~ 15V supply and uses SMA connectors for input and output.



FEATURES

- Frequency Range: 750-1150MHz
- Gain: 28dB
- Pout: +30dBm
- IP3: +40dBm
- Noise Figure: 6dB
- DC Power: 10V-15V
- SMA Connector

Performance tested at 950MHz

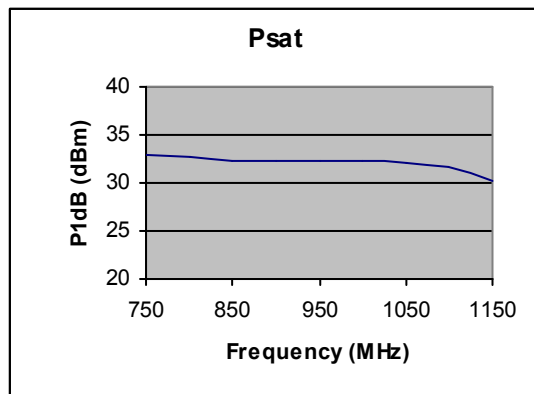
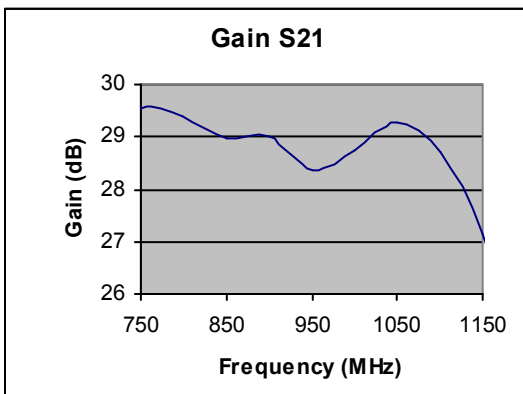
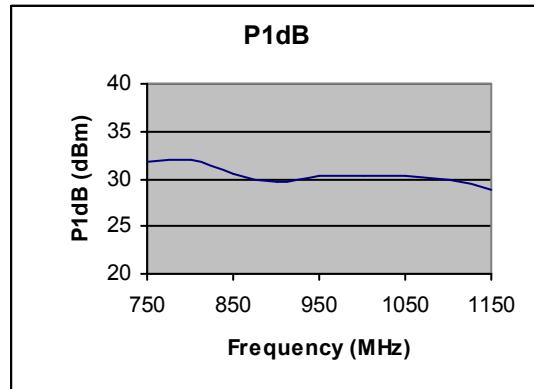
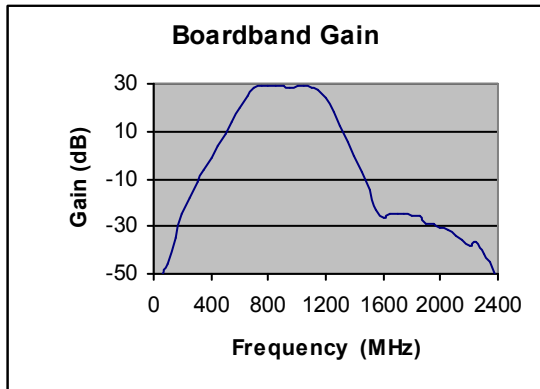
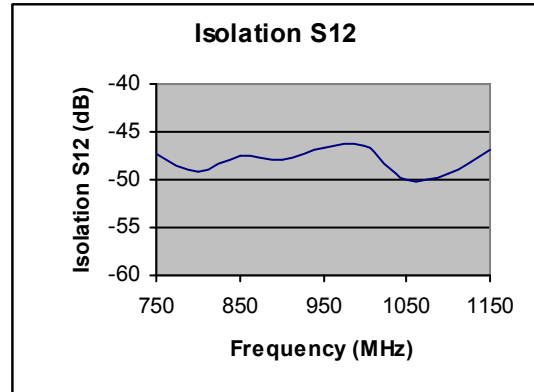
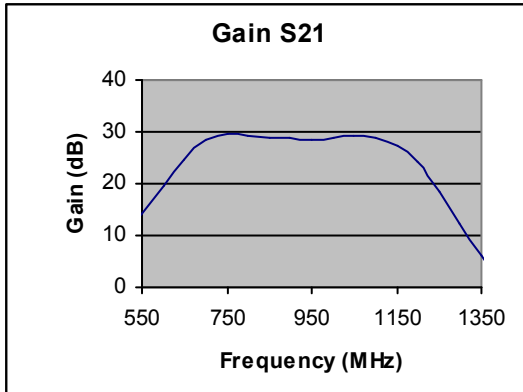
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

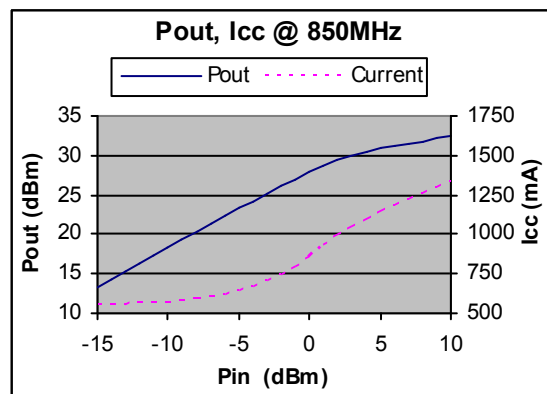
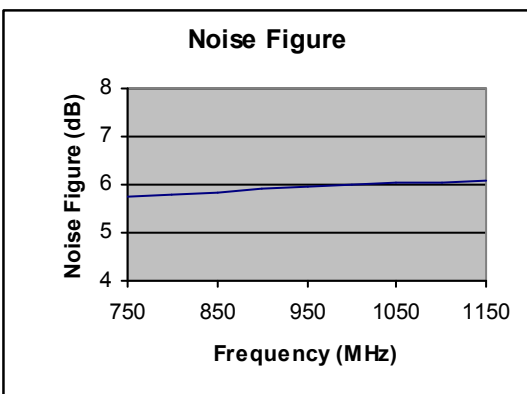
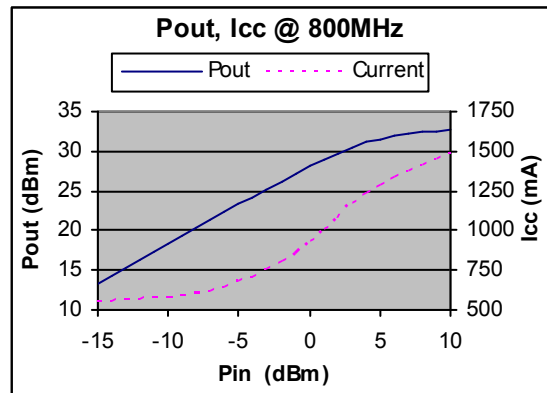
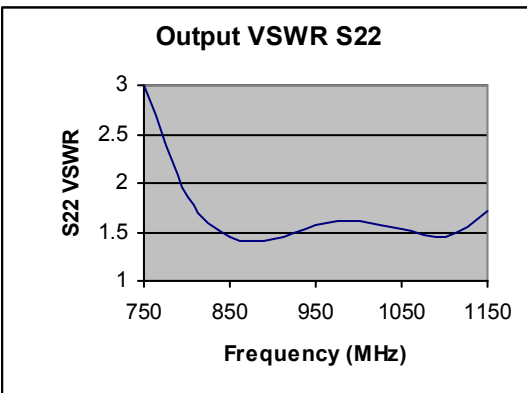
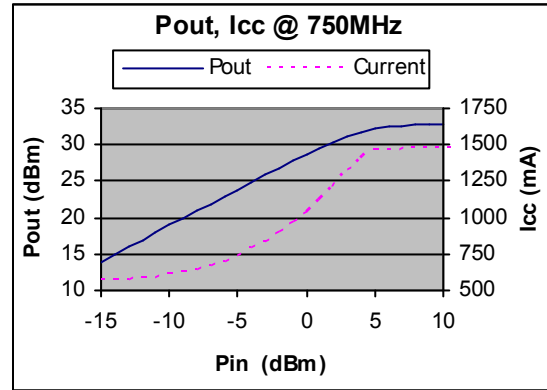
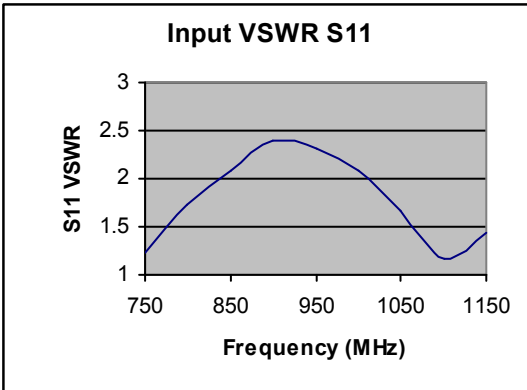
Electrical Specifications @ +25 °C, $Z_s = Z_L = 50 \Omega$, $V_{cc} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	750		1150
Small Signal Gain				
f = 750MHz	dB		29	
f = 950MHz	dB		28	
f = 1150MHz	dB		27	
Output Power P_{1dB}	dBm		+30	
Psat	dBm		+32	
IP3	dBm		+40	
Reverse Isolation	dB		-46	
Noise Figure	dB		6.0	
VSWR				
Input			2.3:1	
Output			1.5:1	
DC Power Supply	V	10	12	15
Quiescent Current with No Input	mA		540	
Supply Current at $P_{out} = +30dBm$	mA		1000	
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		
Weight	Oz.	8		

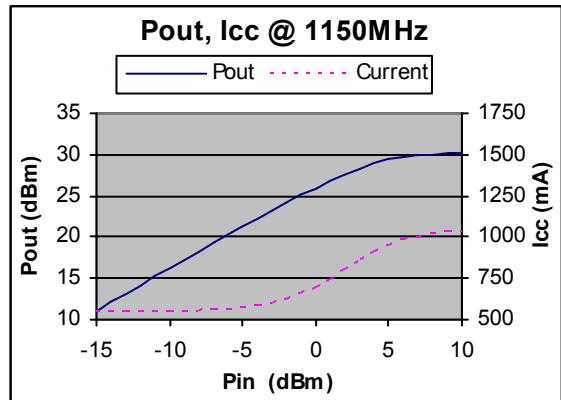
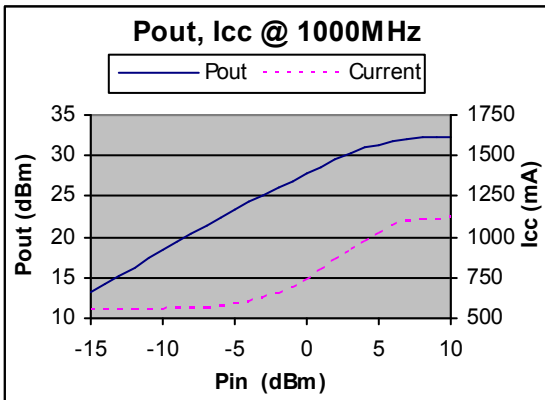
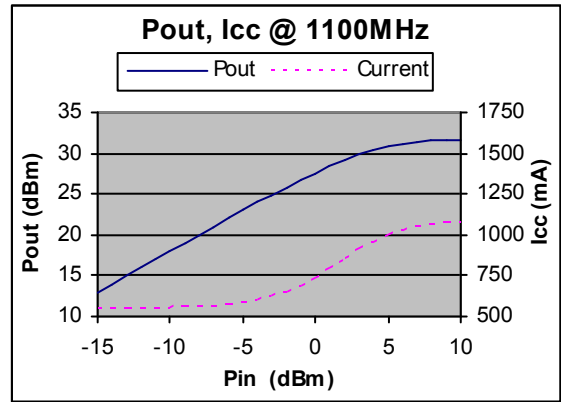
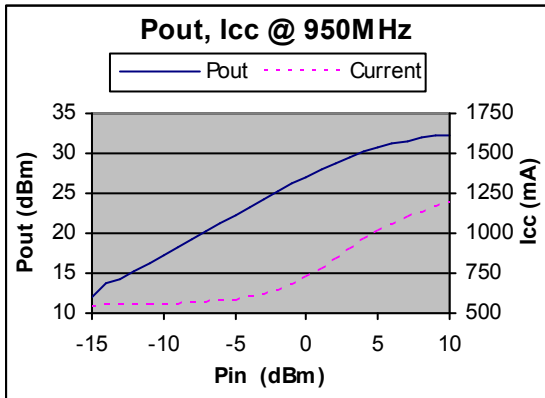
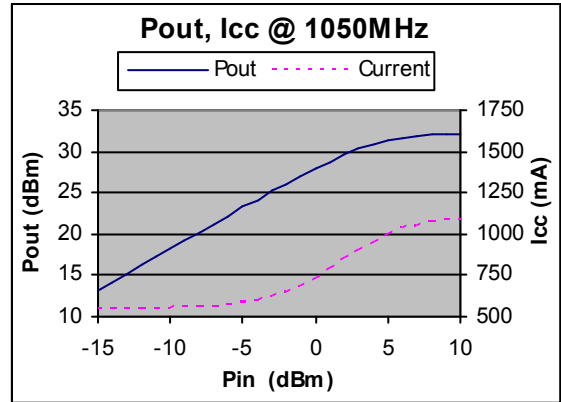
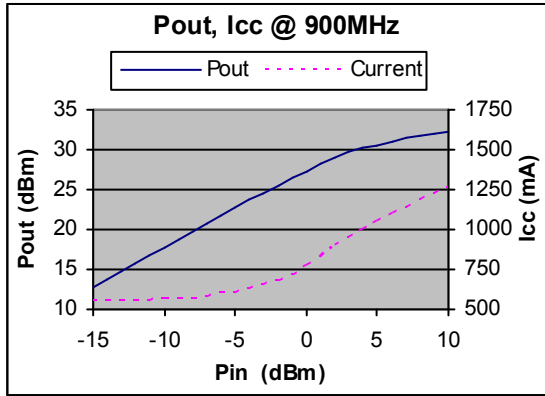
Typical Performance @ +25°C



Typical Performance @ +25°C



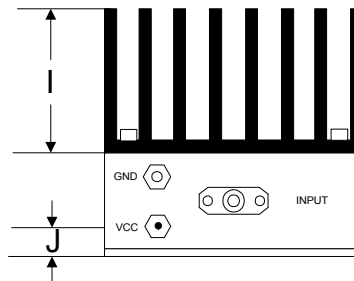
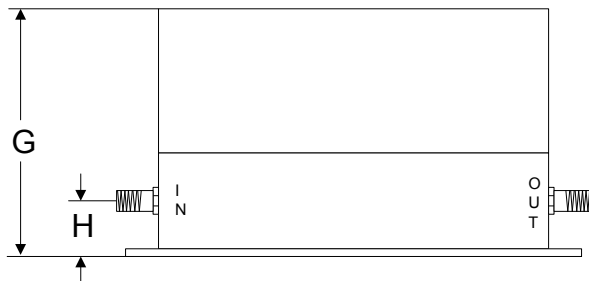
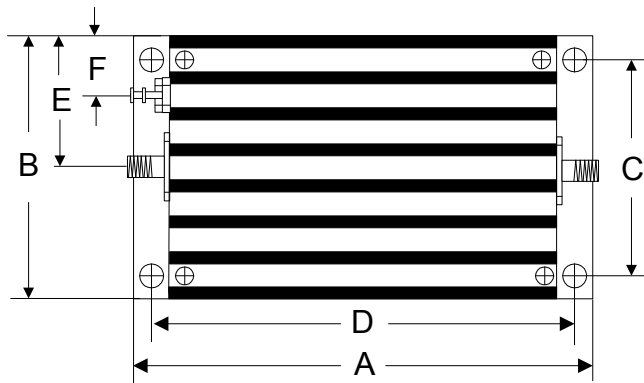
Typical Performance @ +25°C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+17dBm
Supply Voltage	+20V
Operating Temperature	-30 °C to +65 °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