



DESCRIPTION

AMCOM's AM131532PA-P2 is a Power Amplifier module. It is designed for general purpose applications. It operates from 1300 MHz to 1500 MHz. The module operates using a 10 ~ 15V supply and uses SMA connectors for input and output.



FEATURES

- Frequency Range: 1300-1500MHz
- Gain: 32dB
- Pout: +31.7dBm
- IP3: +41dBm
- Noise Figure: 5.5dB
- DC Power: 10V-15V
- SMA Connector

Performance tested at 1400MHz

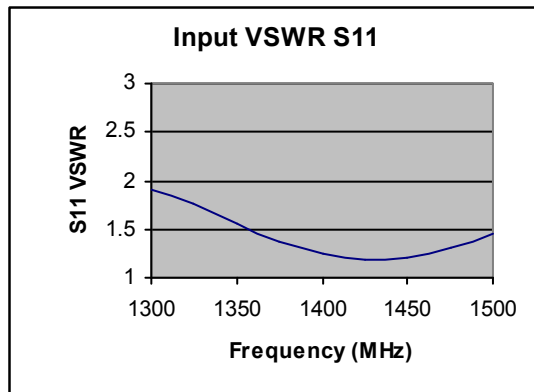
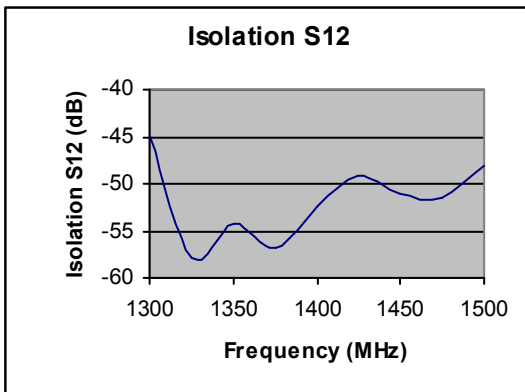
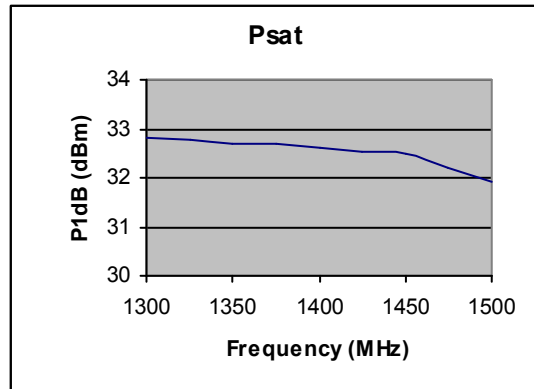
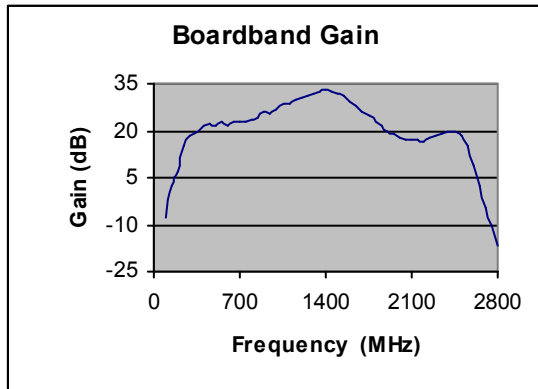
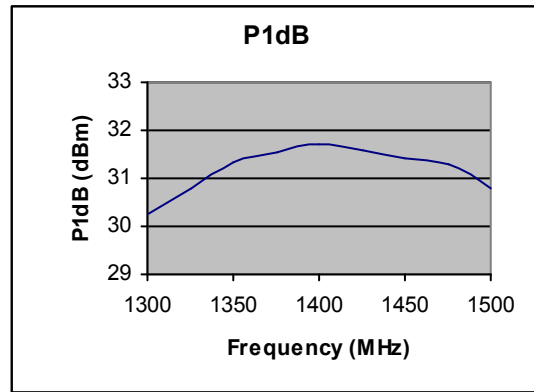
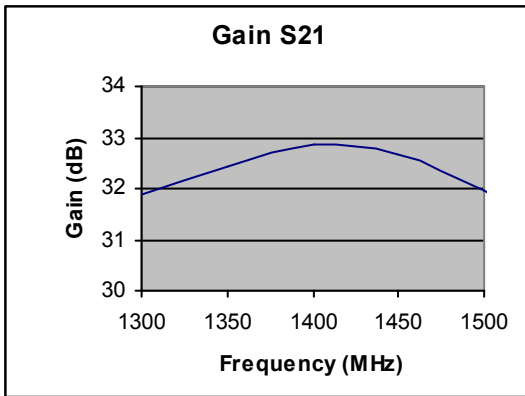
APPLICATIONS

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

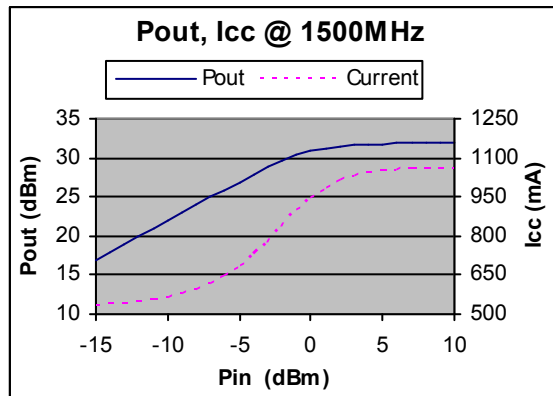
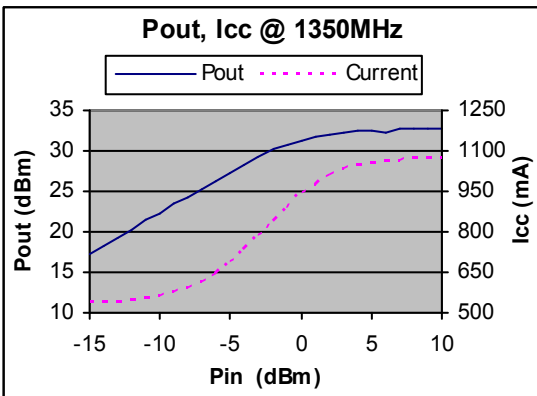
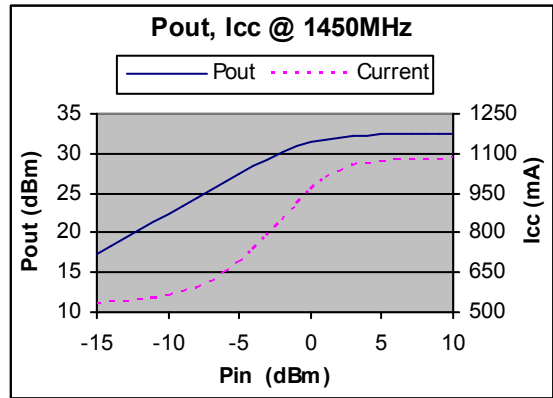
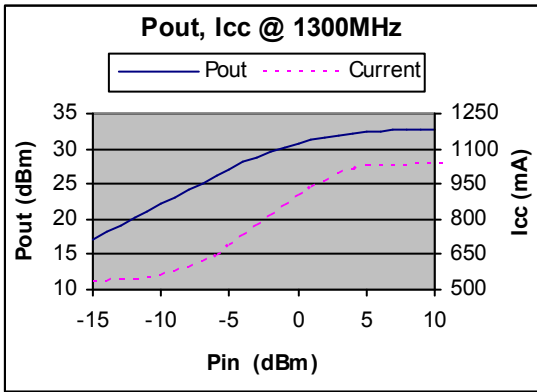
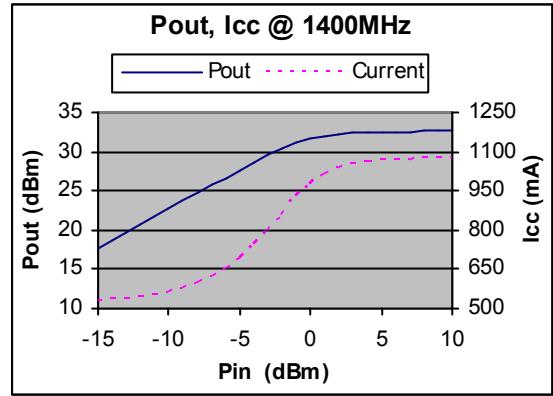
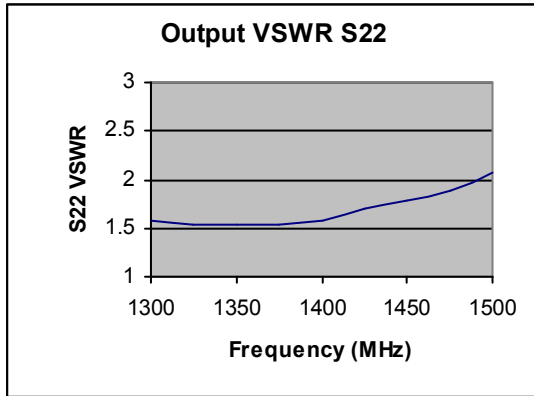
Electrical Specifications @ +25 °C, $Z_S = Z_L = 50$ Ohms, $V_{CC} = +12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1300		1500
Small Signal Gain	f = 1300MHz dB		31	
	f = 1400MHz dB		32	
	f = 1500MHz dB		31	
Output Power P_{1dB}	dBm		+31.7	
Psat	dBm		+32.6	
IP3	dBm		+41	
Reverse Isolation	dB		-50	
Noise Figure	dB		5.5	
VSWR	Input Output		1.3:1 1.6:1	
DC Power Supply	V	10	12	15
Quiescent Current with No Input	mA		540	
Supply Current at $P_{out} = +31.7dBm$	mA		1000	
Size (Excluding SMA Connector)	inch	3.750" x 2.000" x 1.813"		
Weight	Oz.	8		

Typical Performance @ +25°C



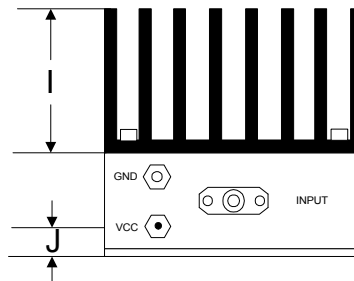
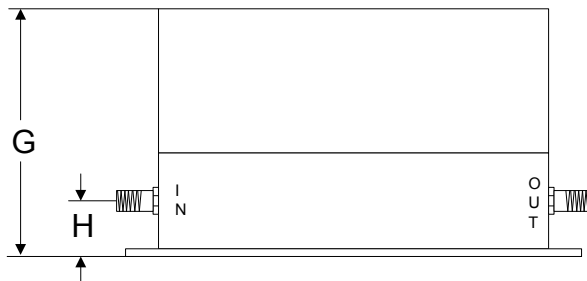
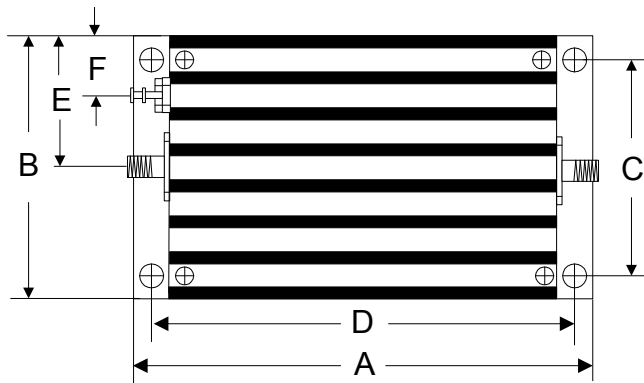
Typical Performance @ +25°C



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