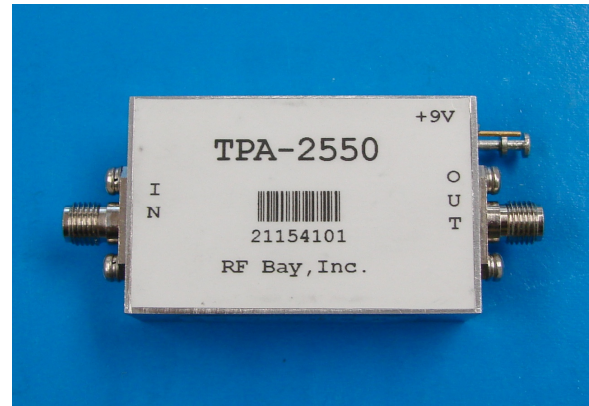


TPA Series**2.5-5.0GHz 1W Power Amplifier****Features**

- Frequency Range: 2.5 – 5.0GHz
- Gain: 23dB
- P_{1dB}: +30dBm
- IP3: +40dBm
- Noise Figure: 5dB
- DC Power: 9V @ 850mA
- RF Connector: SMA-F

Photo**Description**

TPA-2550 is a 1W high performance RF Power Amplifier, with standard frequency range of 2.5 to 5.0GHz.

Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +9VDC

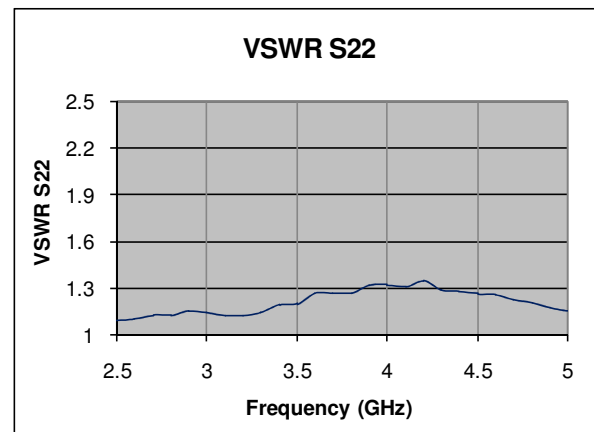
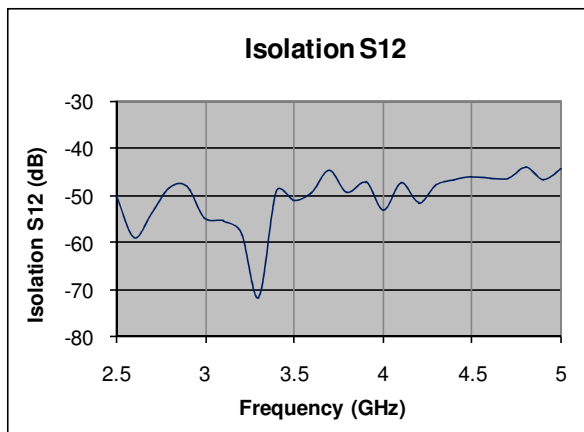
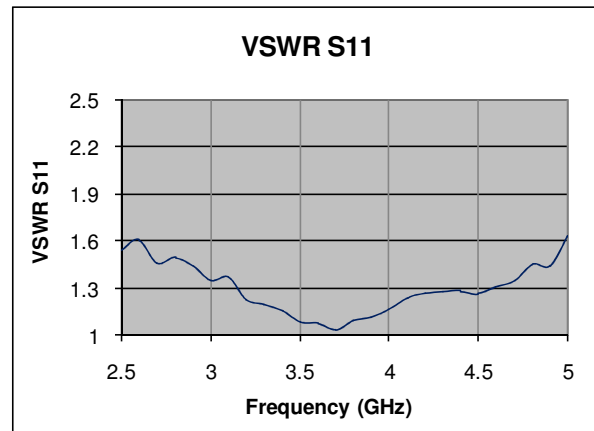
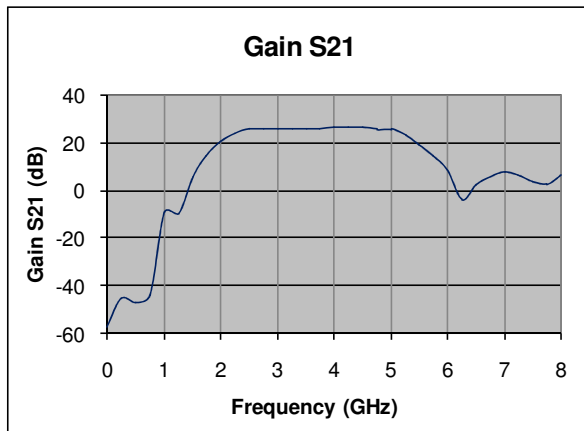
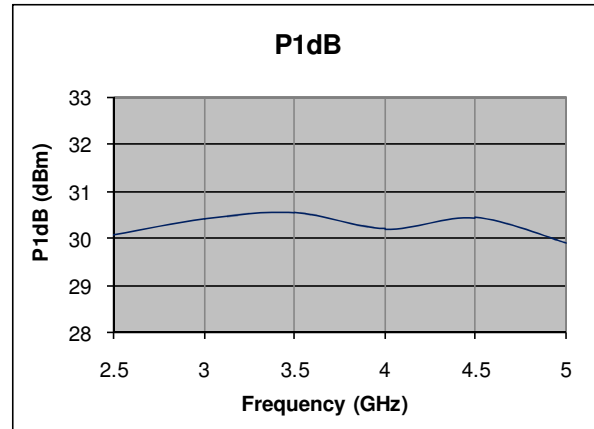
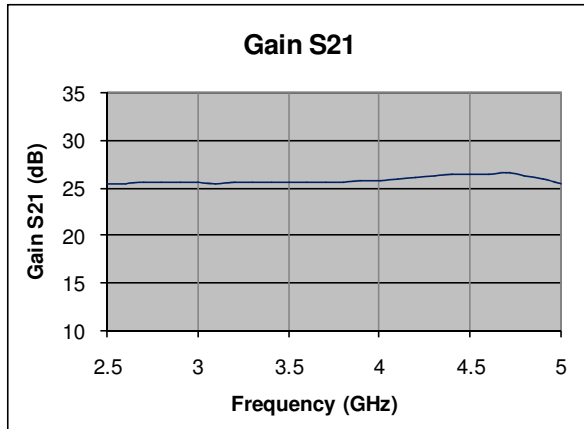
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	2.5		5.0
Gain (S21)	dB	23	25	
Gain Flatness	dB		±0.5	±1.0
Output Power P _{1dB}	dBm		+30	
Output Power P _{SAT}	dBm		+32	
Output Third Order Intercept IP3	dBm		+40	
Noise Figure	dB		5	7
Isolation S12	dB		-45	
VSWR-Input (S11)	ratio		1.5:1	2.0:1
VSWR-Output (S22)	(unitless)		1.3:1	2.0:1
DC Power Supply - voltage	V		9	
DC Power Supply - current	mA		850	
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch/mm	1.75 x 1.15 x 0.67/44.45 x 29.21 x 17.02(LxWxH)		
Weight	Oz	2.0 (56.7 grams)		

WARNING: MUST USE HEAT SINK

TPA Series

2.5-5.0GHz 1W Power Amplifier

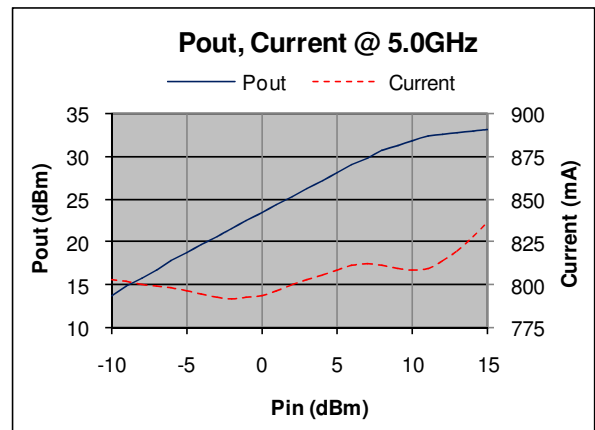
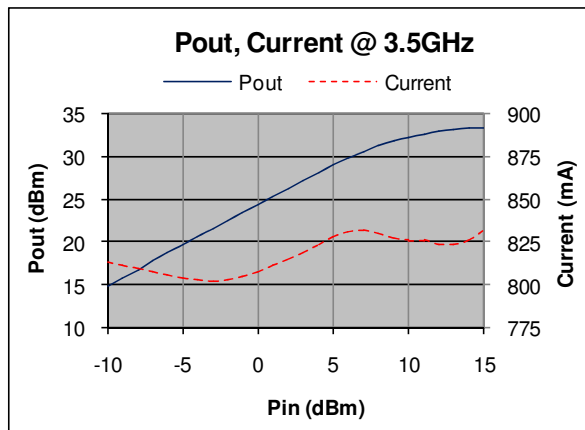
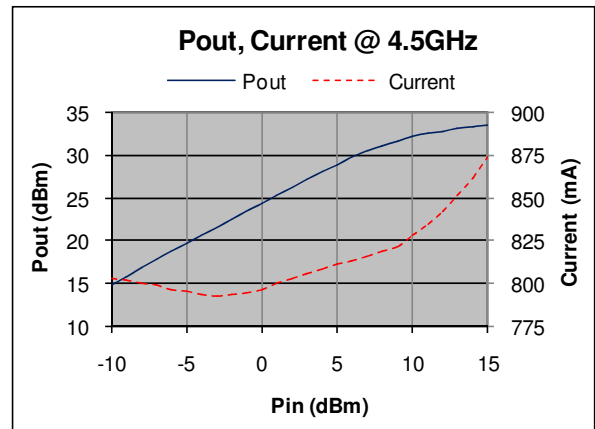
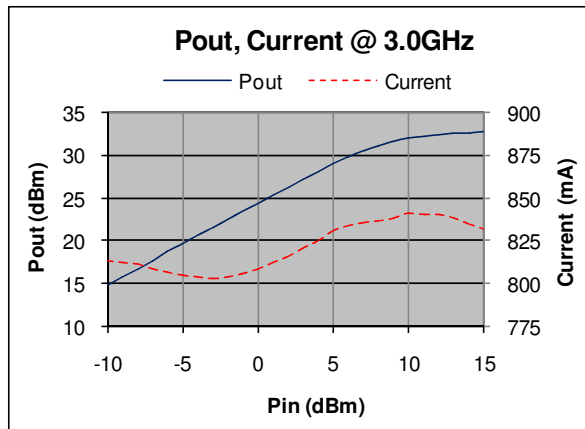
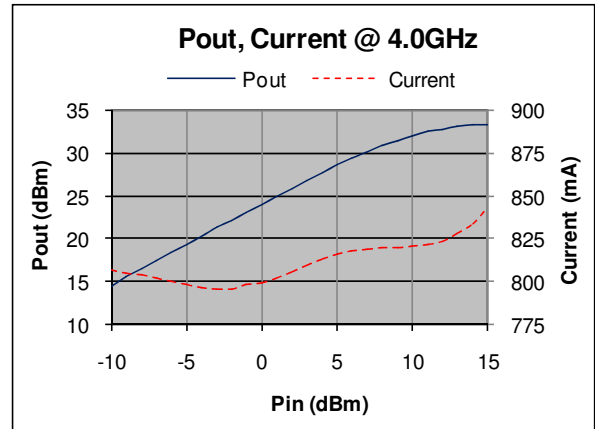
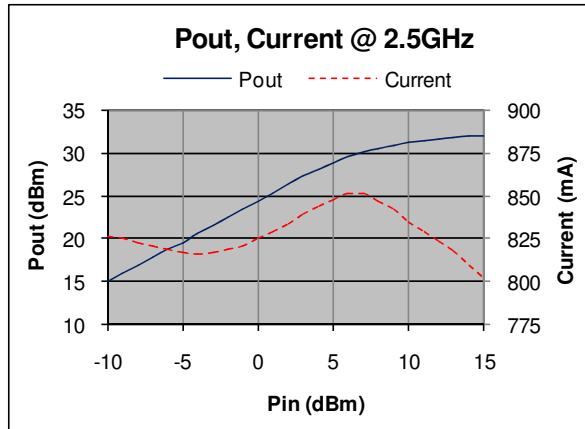
Typical Performance @ +25 °C



TPA Series

2.5-5.0GHz 1W Power Amplifier

Typical Performance @ +25 °C



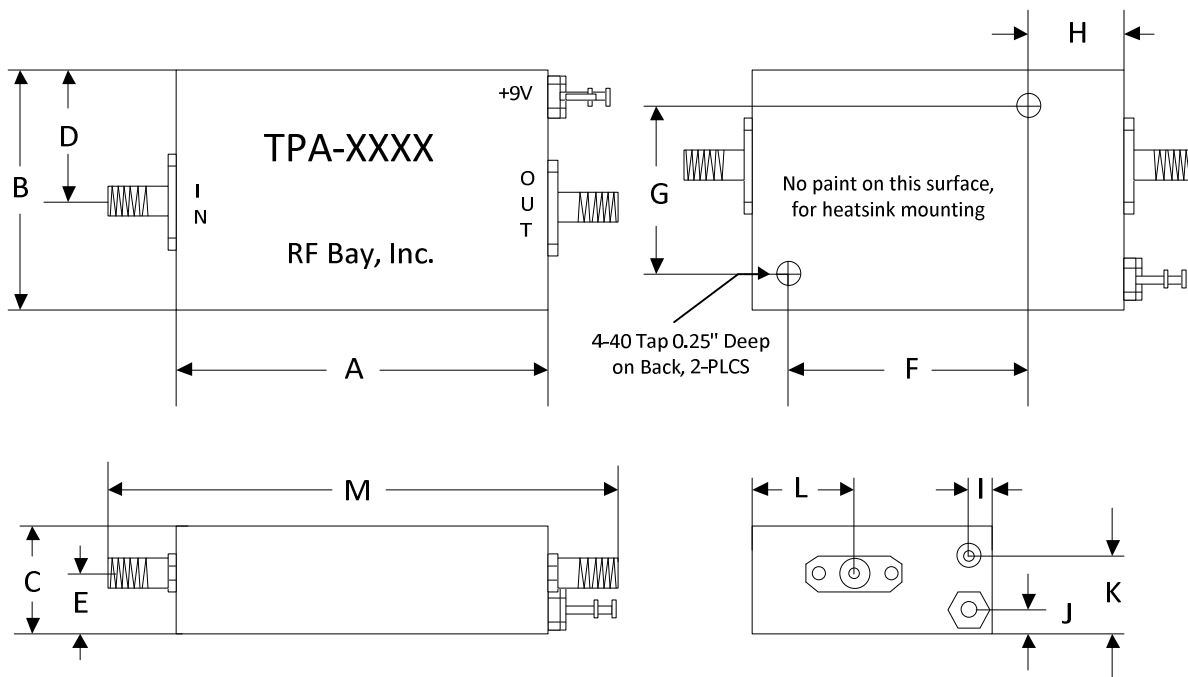
TPA Series

2.5-5.0GHz 1W Power Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage (Survival)	+12V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline



	A	B	C	D	E	F	G	H	I
Inch	1.750	1.150	0.670	0.640	0.362	1.125	0.750	0.375	0.160
mm	44.45	29.21	17.02	16.26	9.19	28.58	19.05	9.26	4.06
	J	K	L	M					
Inch	0.150	0.320	0.510	2.500					
mm	3.81	8.13	12.95	63.5					