

TWA Series**4.5-6.5GHz 4W Power Amplifier****Features**

- Frequency Range: 4.5 – 6.5GHz
- Gain: 36dB
- P_{OUT}: +36dBm
- IP3: +45dBm
- Noise Figure: 4.5dB
- DC Power: 12V @ 2400mA
- RF Connector: SMA-F

Photo**Description**

TWA-4565 is a 4W high performance RF Power Amplifier, with standard frequency range of 4.5 to 6.5GHz.

Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, V_{supply} = +12VDC

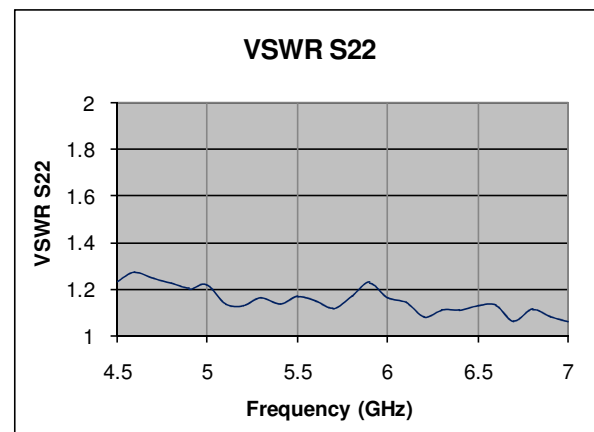
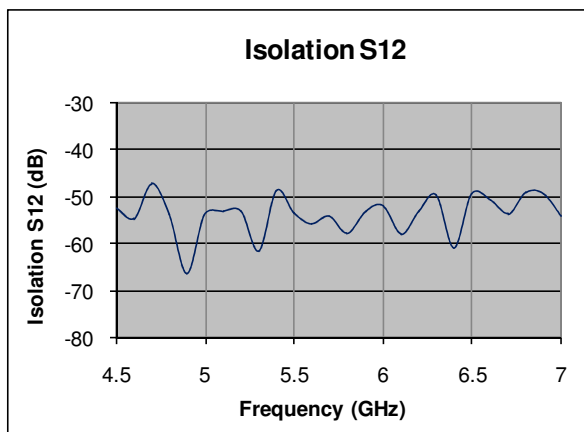
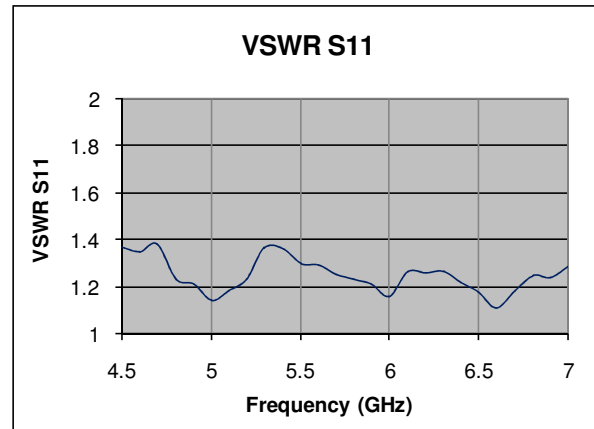
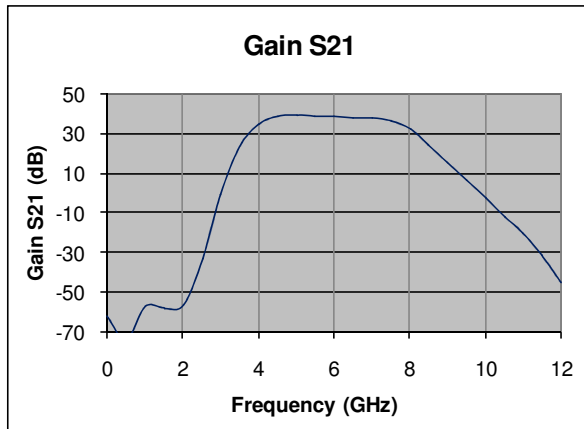
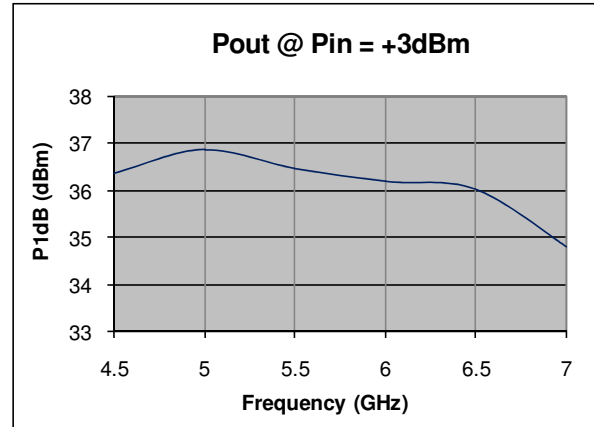
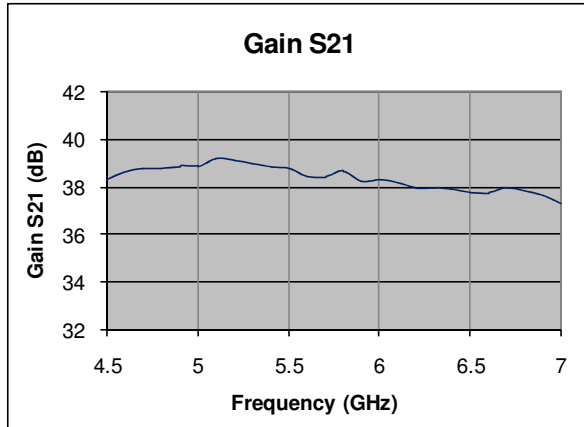
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	4.5		6.5
Gain (S21)	dB	36	38	
Gain Flatness	dB		±0.7	±1.2
Output Power P _{OUT} @ P _{IN} = +3dBm	dBm		+36	
Output Third Order Intercept IP3	dBm		+45	
Noise Figure	dB		4.5	5.5
Isolation (S12)	dB		-45	
VSWR-Input (S11)	ratio		1.5:1	2.0:1
VSWR-Output (S22)	(unitless)		1.3:1	2.0:1
DC Power Supply - voltage	V		12	
DC Power Supply - current	mA		2400	
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch/mm	2.96 x 2.35 x 0.63/73.66 x 59.69 x 16.00(LxWxH)		
Weight	Oz	5.4 (153 grams)		

WARNING: MUST USE ADEQUATE HEAT SINK TO MAINTAIN AMPLIFIER CASE TEMPERATURE UNDER +85 °C

TWA Series

4.5-6.5GHz 4W Power Amplifier

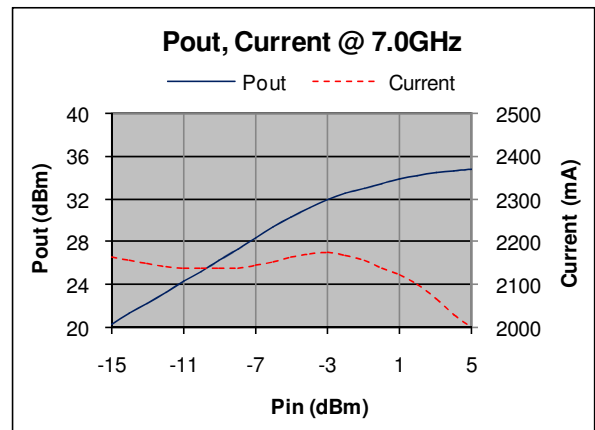
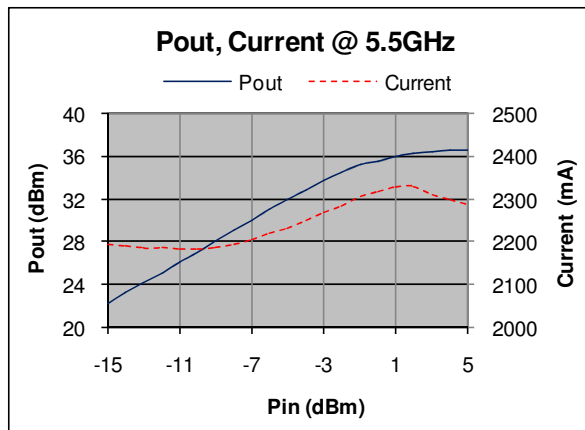
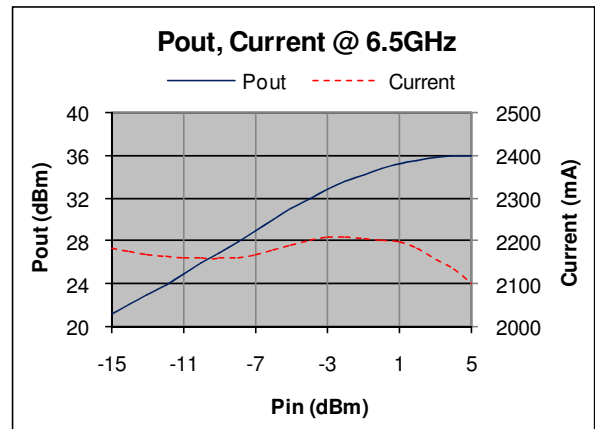
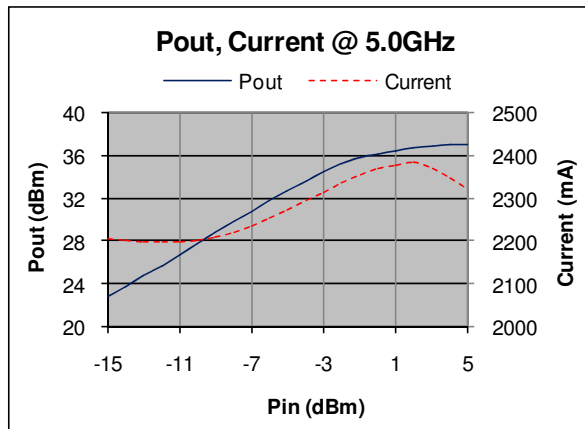
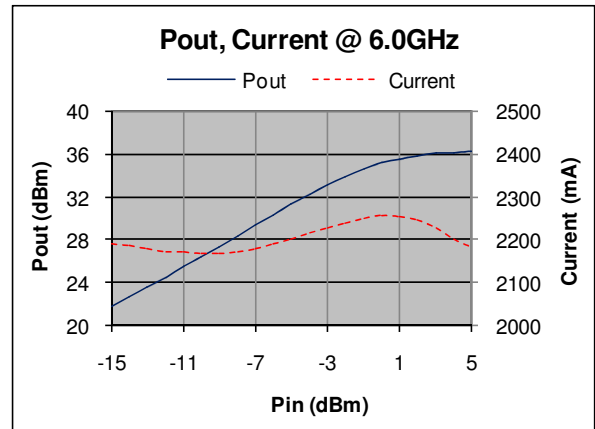
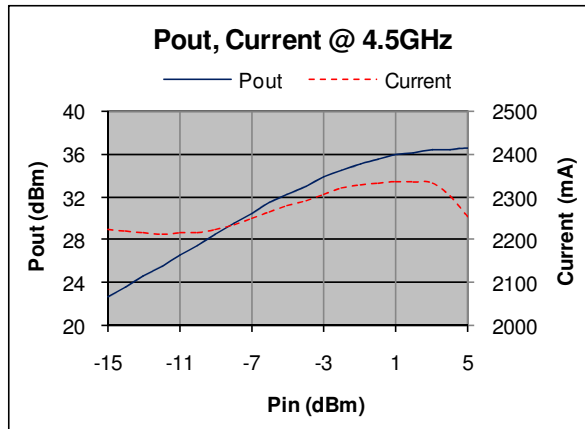
Typical Performance @ +25 °C



TWA Series

4.5-6.5GHz 4W Power Amplifier

Typical Performance @ +25 °C



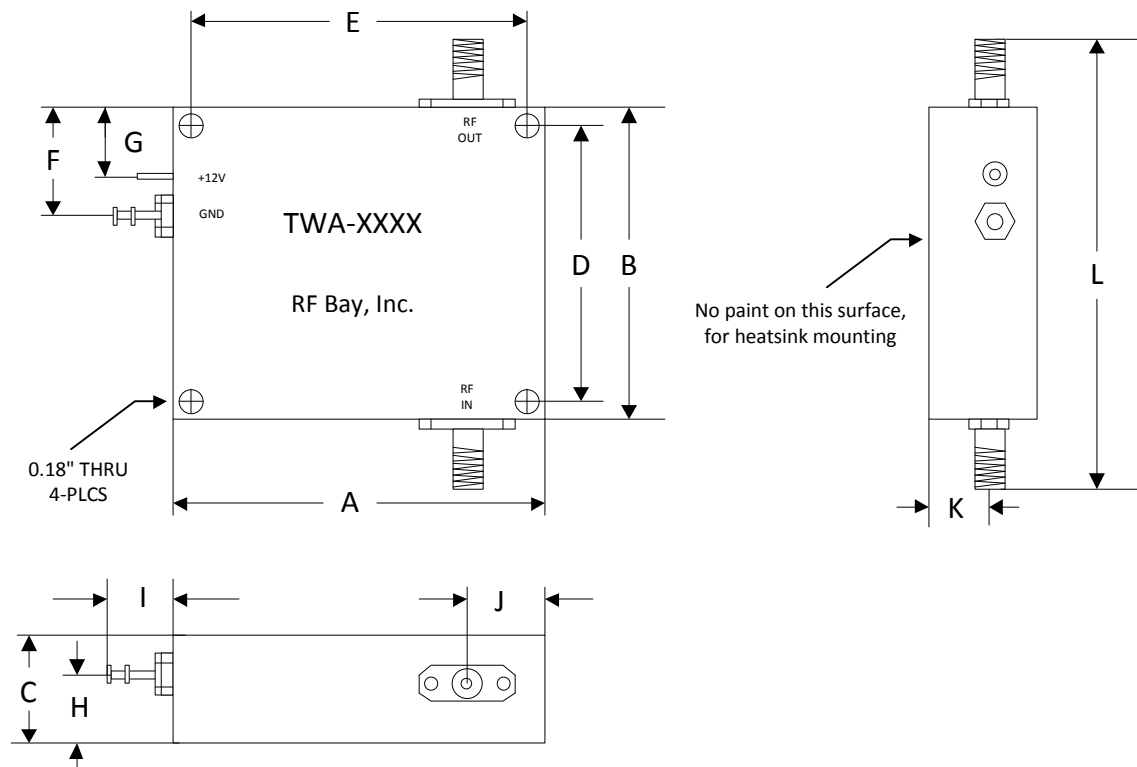
TWA Series

4.5-6.5GHz 4W Power Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
Supply Voltage (Survival)	+13V
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	2.900	2.350	0.630	2.010	2.670	0.750	0.500	0.360	0.400
mm	73.66	59.69	16.00	51.05	67.82	19.05	12.70	9.144	10.16
	J	K	L						
Inch	0.560	0.330	3.100						
mm	14.22	8.38	78.74						