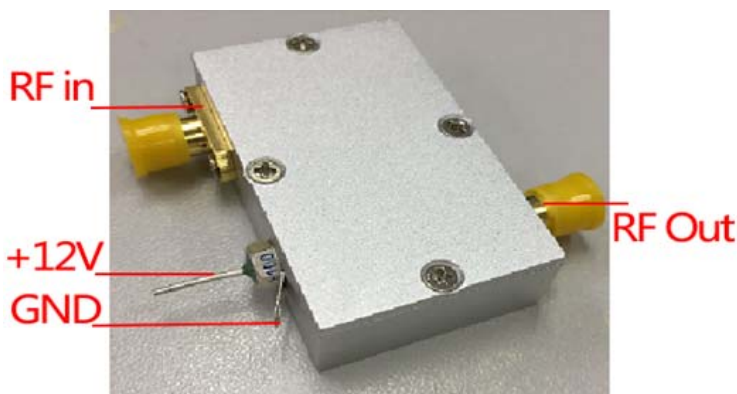
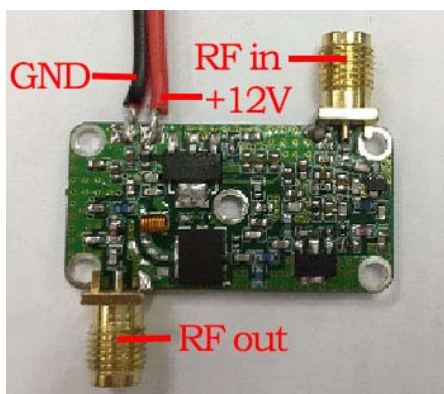


## PA550A

PA550A 功率放大模块实现射频信号的功率放大输出。PA550A 输入电压 12V 时，接 Sihid RCB 或 RCA COFDM 调制板，输出发射功率最大可到 1W(+30dBm)。PA550A 支持工作频段 544MHz~564MHz。



### PA550A 功能说明:

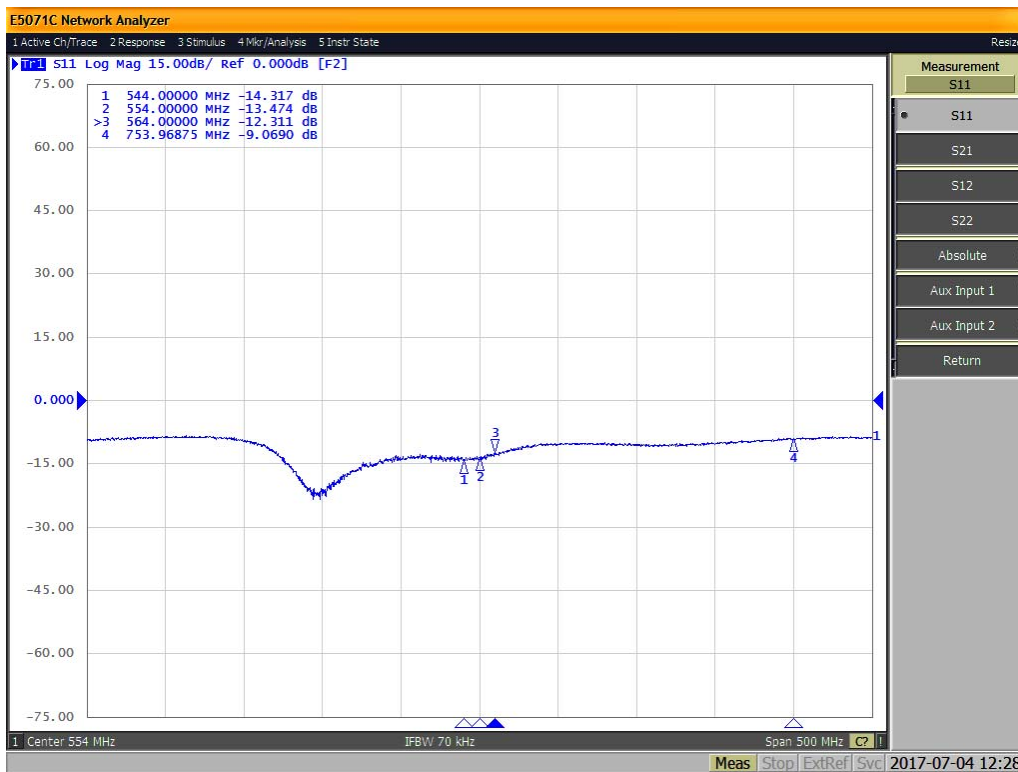
- 工作频段: 544MHz~564MHz
- Gain: 45.0dB
- Pout: +30dBm
- IP3: +49dBm
- Noise Figure: 4dB
- DC Power: 12V, 输出 1W(+30dBm)发射功率时, 功耗在 8W 左右
- RF 接口: SMA 外螺纹内针

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

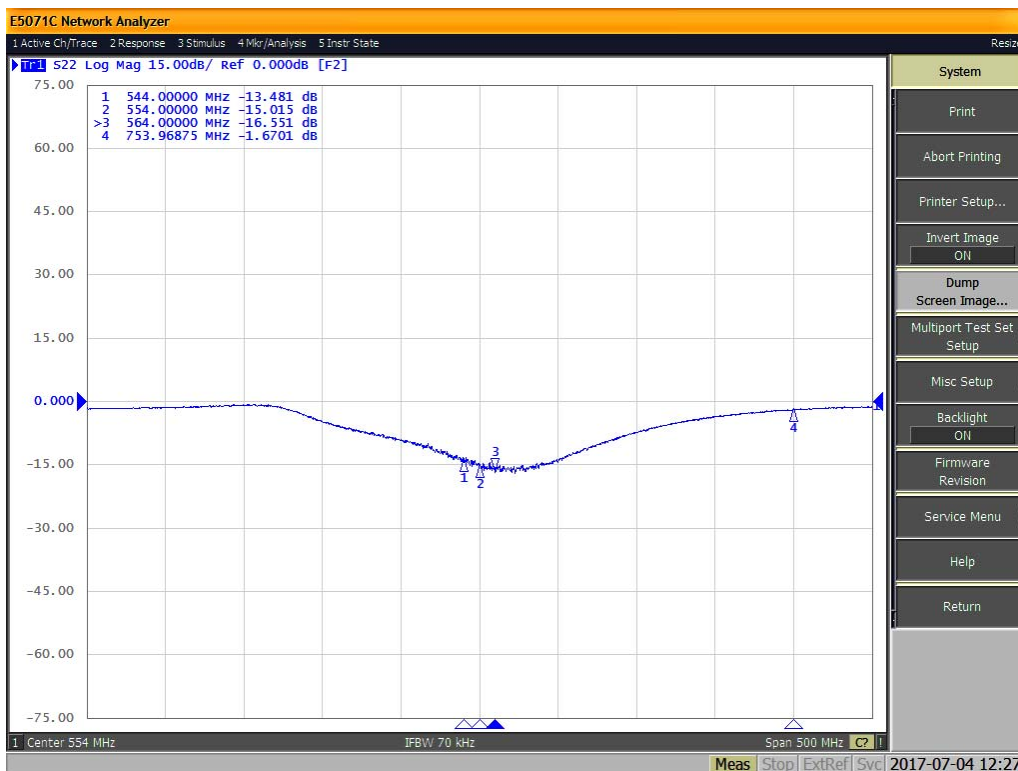
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	544		564
Small Signal Gain	dB		45.0	
Gain Flatness	dB		+/-0.5	
Output Power Pout@Pin=-19dBm	dBm		+30	
IP3	dBm		+49	
ACPR(WCDMA PAR=9.9dB)	dBc		-40	
Reverse Isolation	dB		-45	
Noise Figure	dB		4	
Efficiency(Pout=+39dBm@600MHz)	%		13.8	
VSWR input			1.3:1	
output			1.3:1	
DC Power Supply	V	7.4	10	12
Supply Current (Quiescent)	mA		300	
板子尺寸(未计算接口器件伸出板边)	mm	35.1mm x 18.1mm x 0.6mm		

带铝合金腔体尺寸	mm	43.0mm x 26.0mm x 10.0mm
带铝合金腔体重量	g	29.4

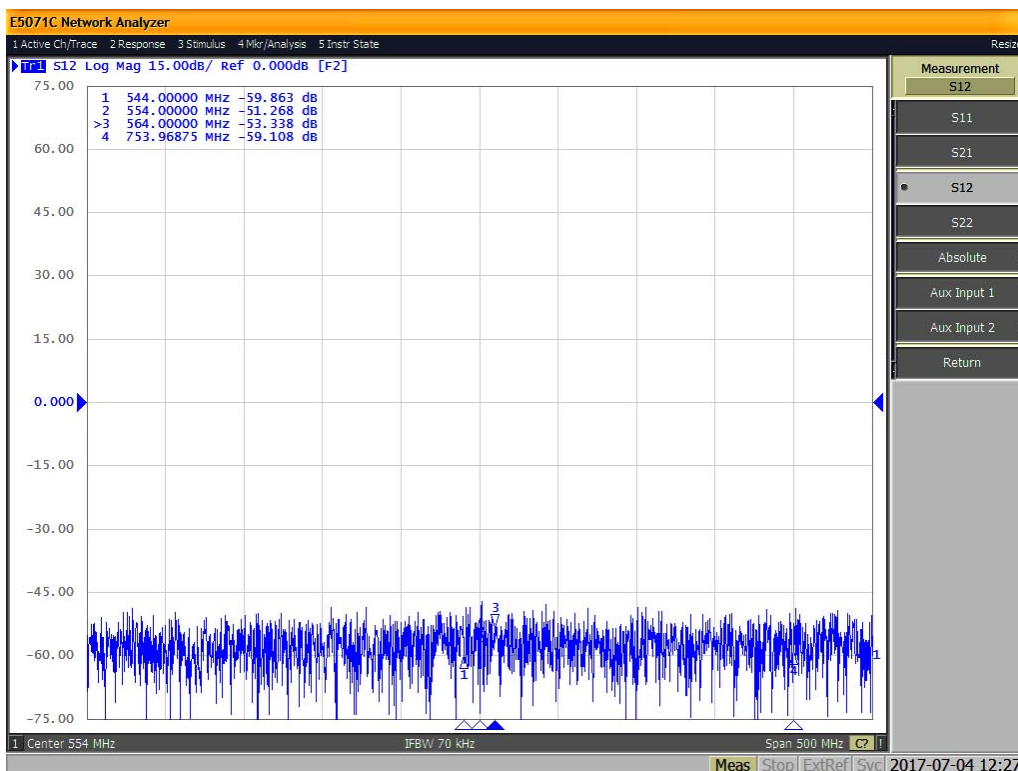
Typical Performance @ +25°C



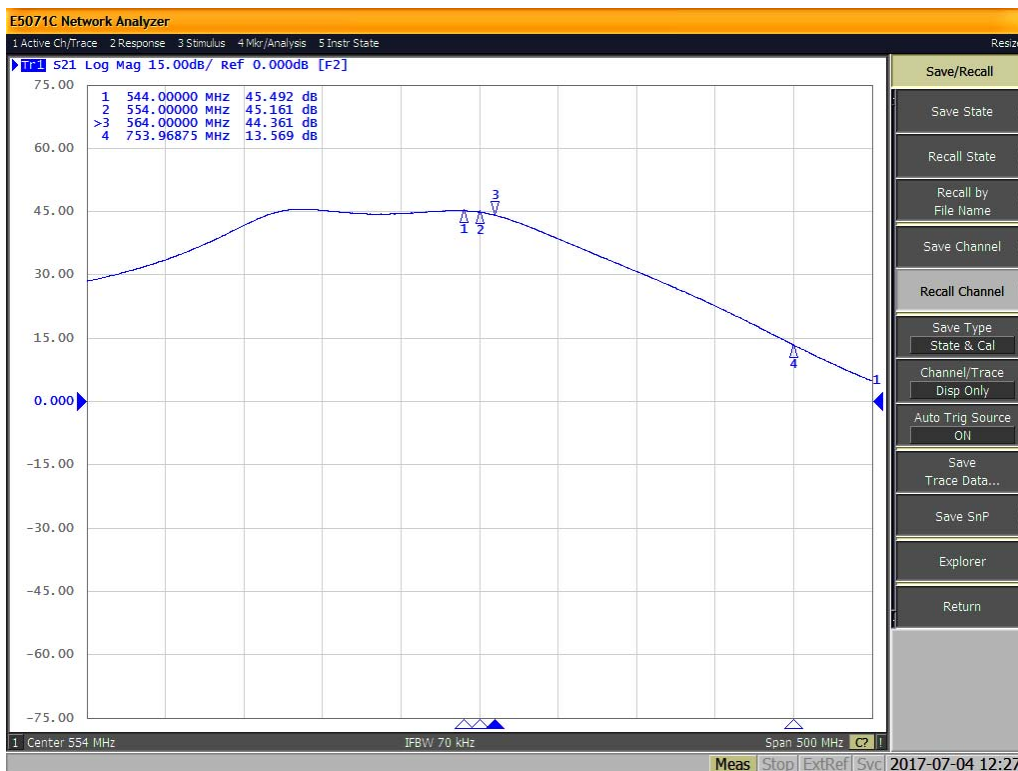
Input return loss (dB)



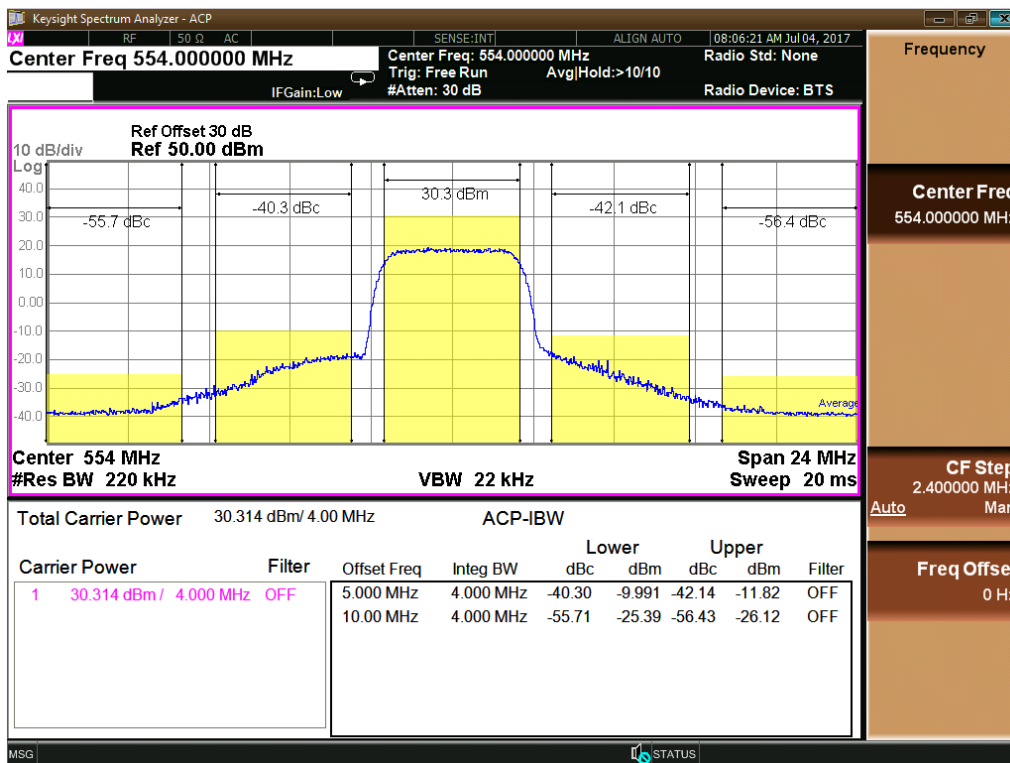
Output return loss (dB)



Isolation (dB)



Gain (dB)

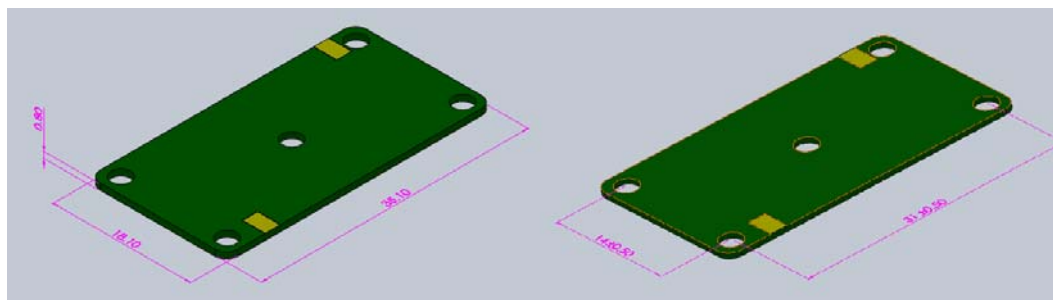


Pout @WCDMA 554MHz PAR=9.9dB

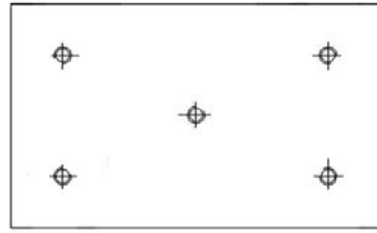
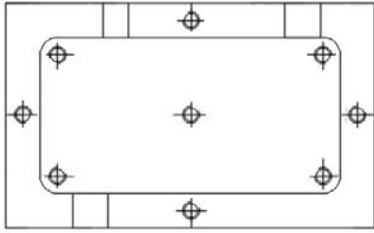
### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	-10 dBm
Supply Voltage	+14V
Operating Temperature	-40°C to +65°C
Storage Temperature	-55°C to +100°C

板子尺寸图:



铝合金腔体螺孔示意图:



Sihid 矽海达科技  
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