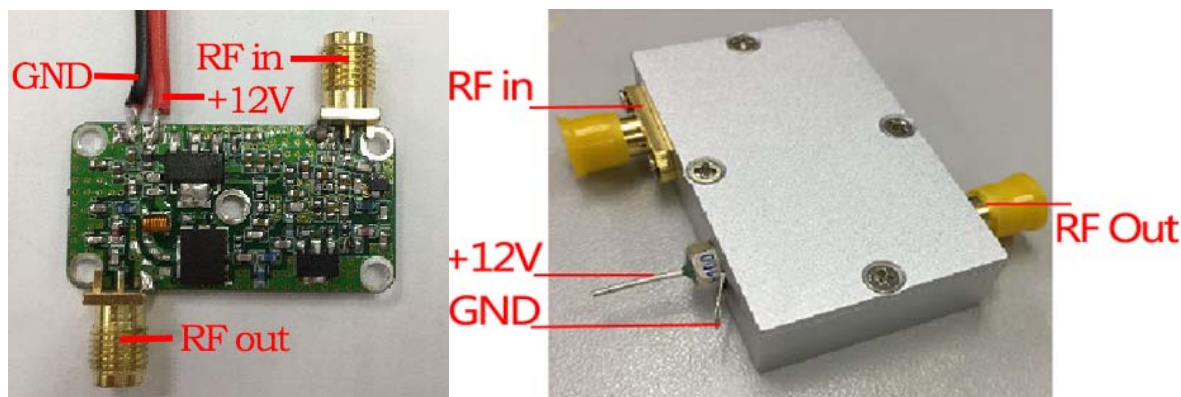


## PA700A

PA700A 功率放大模块实现射频信号的功率放大输出。PA700A 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 2W(+33dBm)。PA700A 支持工作频段 680MHz~720MHz。



### PA700A 功能说明:

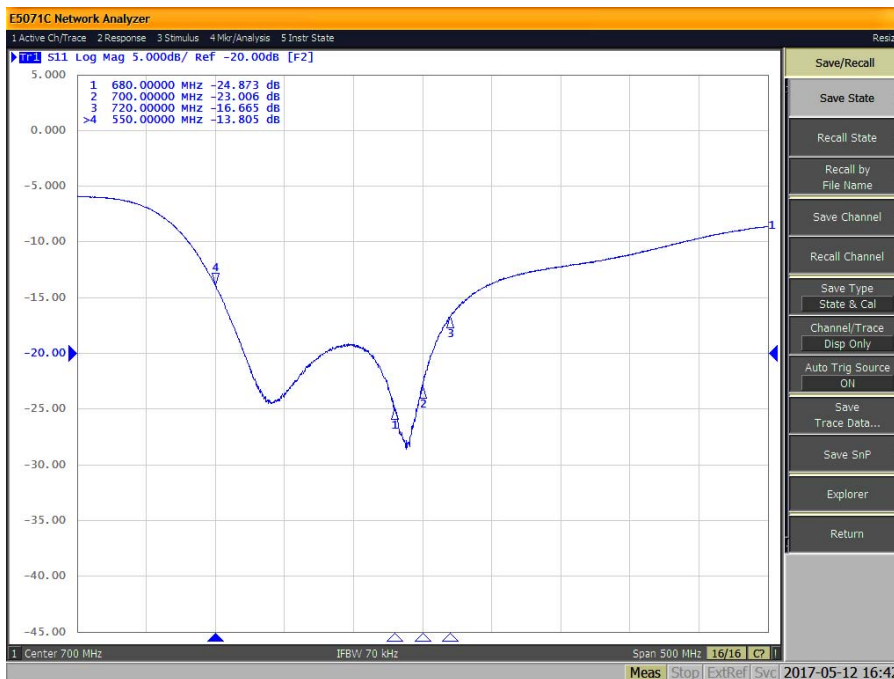
- 工作频段: 680MHz~720MHz
- Gain: 45dB
- Pout: +33dBm(PAR=9.9dB)
- ACPR: < -36dBc
- IP3: +49dBm
- Noise Figure: 6dB
- 供电电压: 12V, 输出 1W(+30dBm)发射功率时, 功耗在 8.7W 左右。
- RF 接口: SMA 外螺纹内孔

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

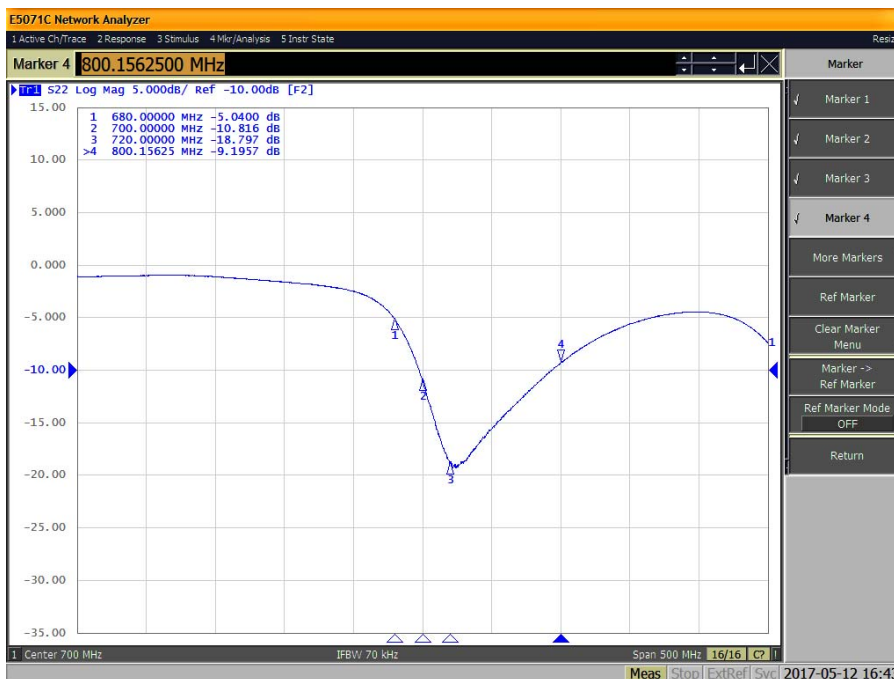
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	680		720
Small Signal Gain	dB		45	
Gain Flatness	dB		+/-0.5	
Pout@Pin=-13dBm@PAR=9.9dB	dBm		+33	
IP3	dBm		+49	
ACPR(@WCDMA +33dBm Output)	dBc		-36	
Reverse Isolation	dB		-60	
Noise Figure	dB		6	
Efficiency(Pout=+33dBm@700MHz)	%		25	
VSWR input			1.5:1	
output			1.5:1	
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

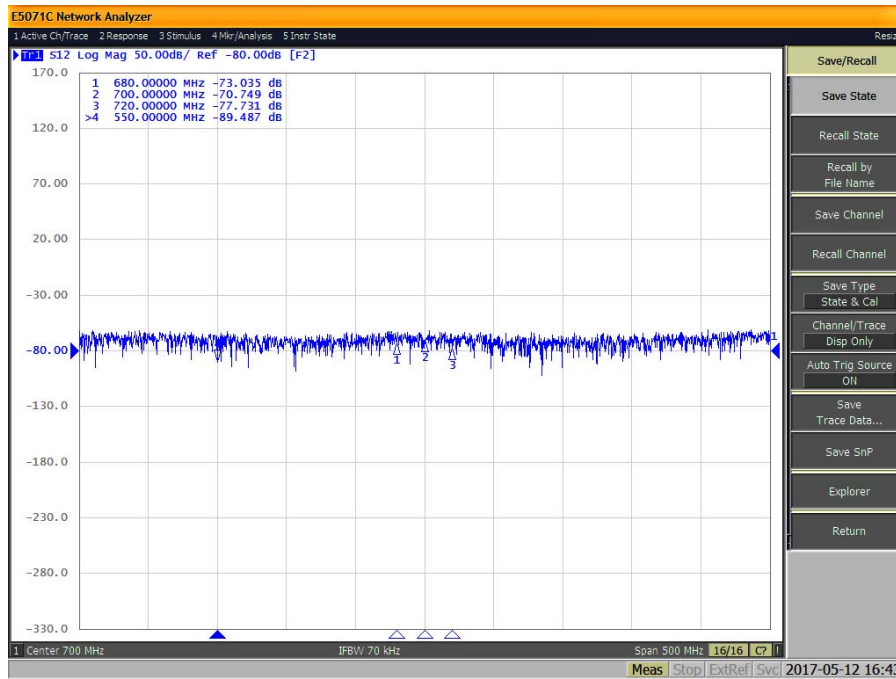
Typical Performance @ +25°C



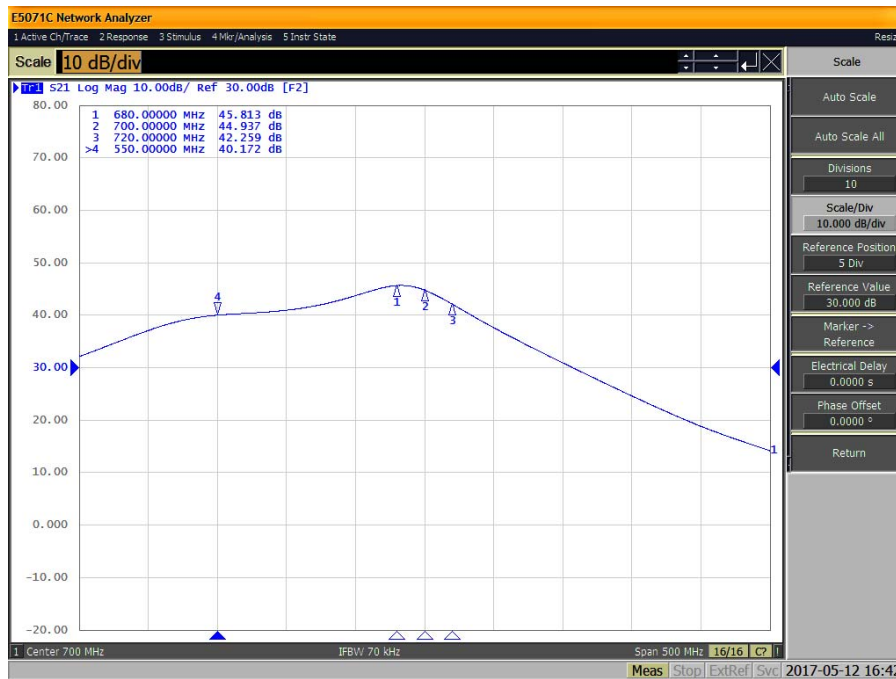
Input return loss (dB)



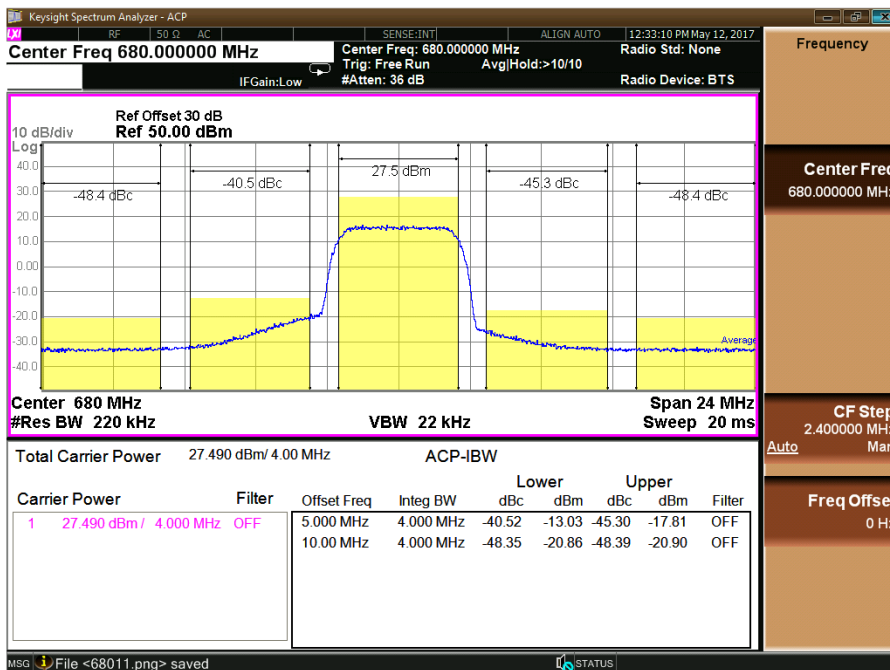
Output return loss (dB)



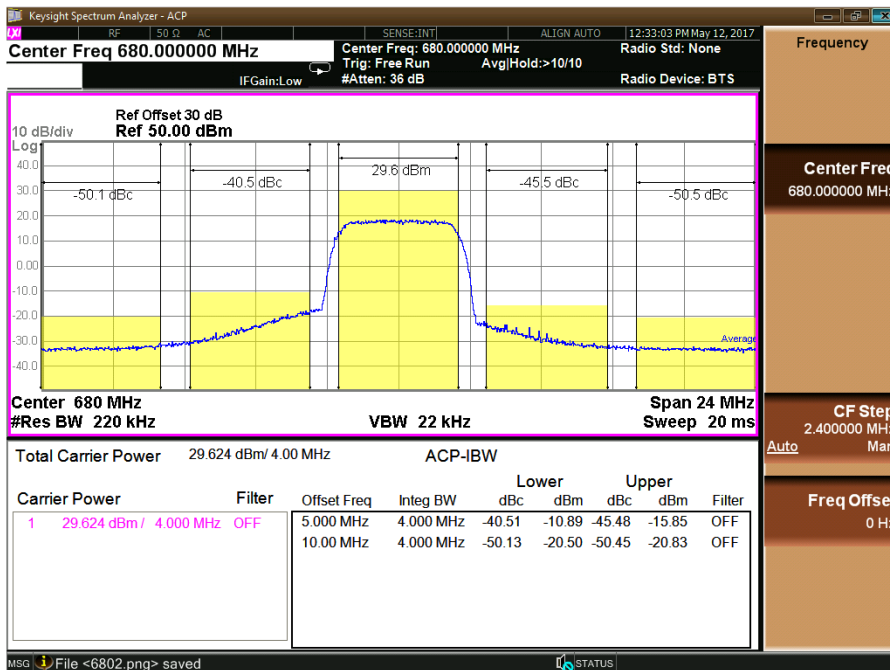
Isolation (dB)



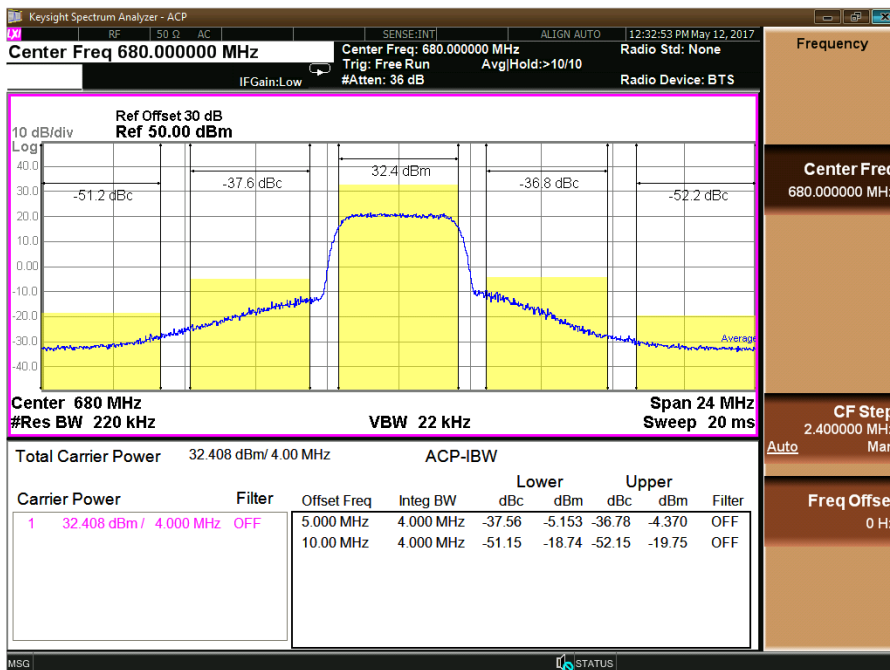
Gain (dB)



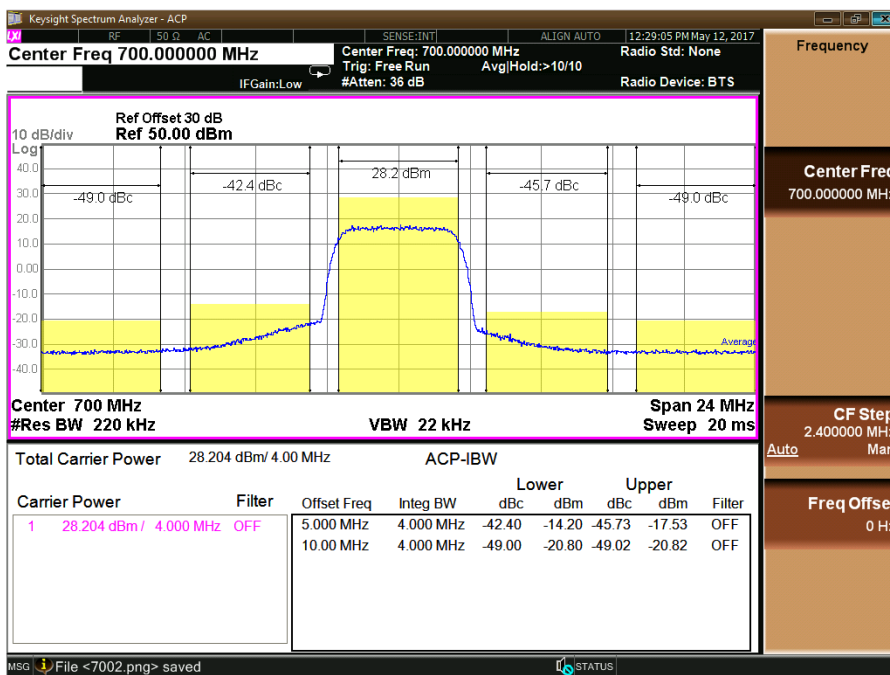
Pout=0.6W@WCDMA 680MHz



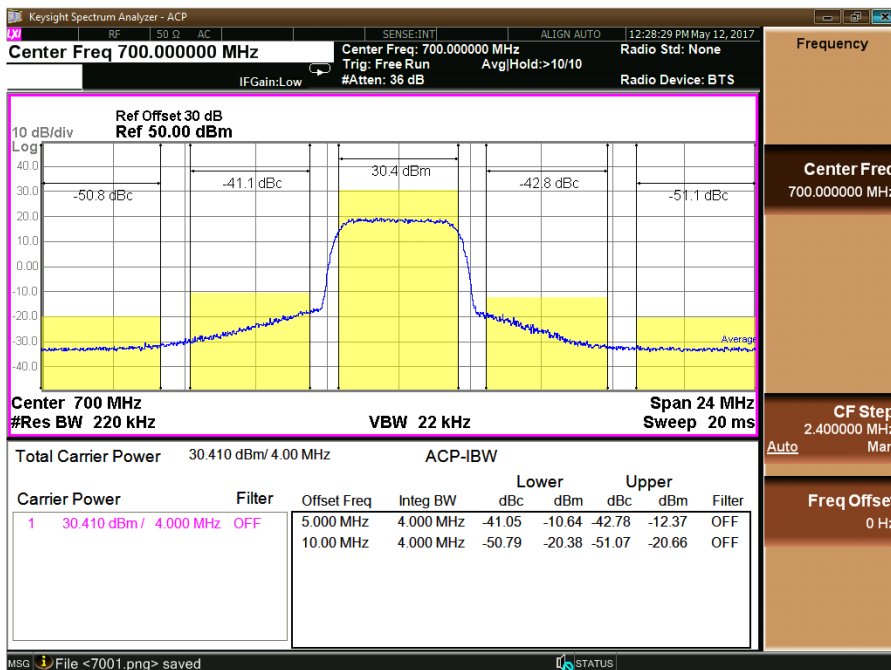
Pout=1W @WCDMA 680MHz



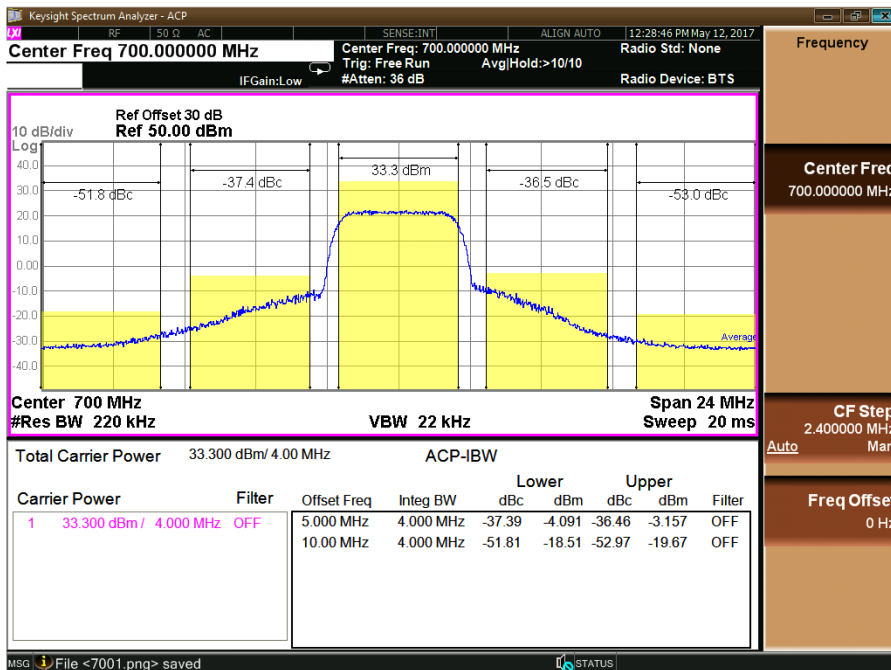
Pout=2W @WCDMA 680MHz



Pout=0.6W @WCDMA 700MHz

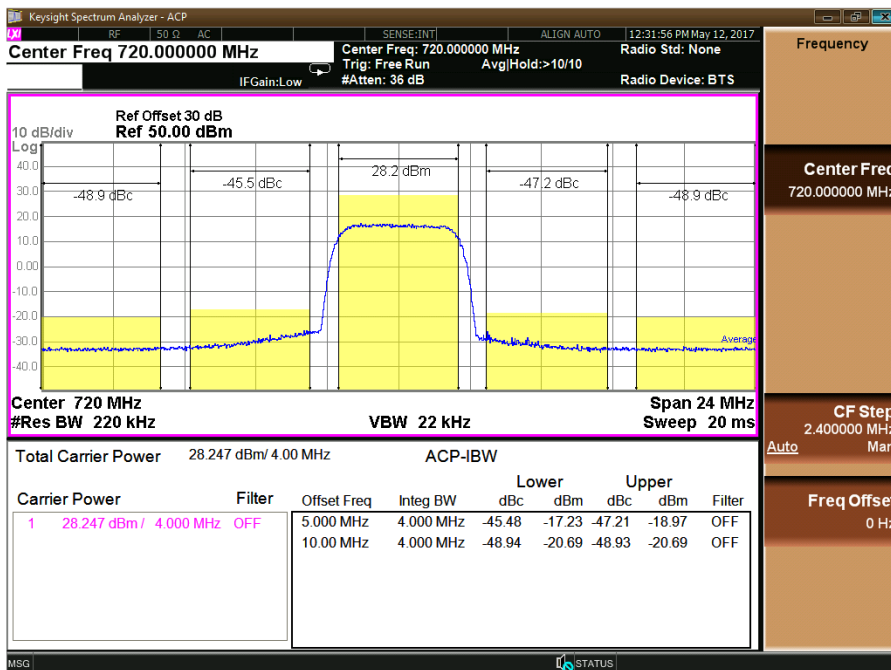


Pout=1W @WCDMA 700MHz

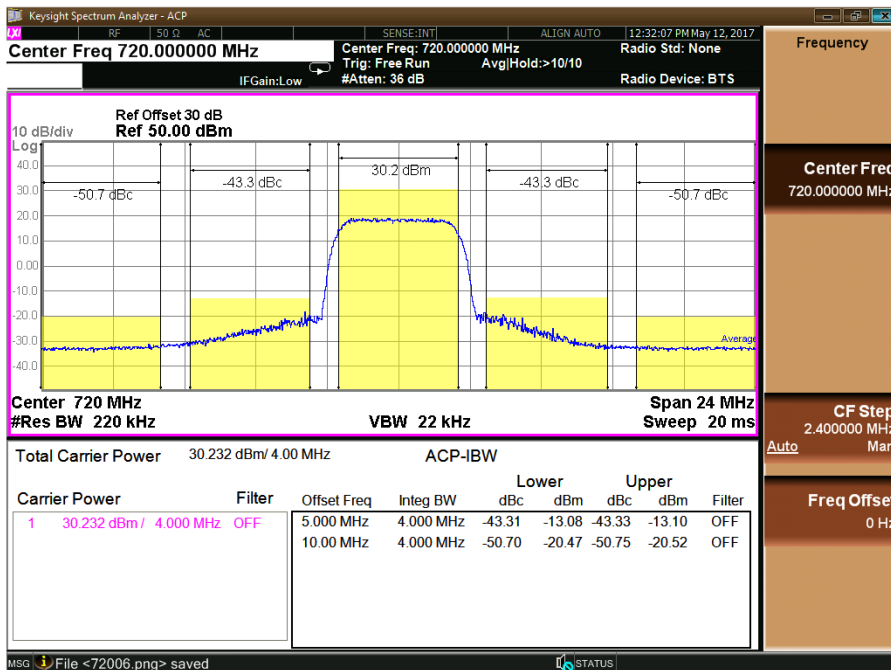


Pout=2W @WCDMA 700MHz

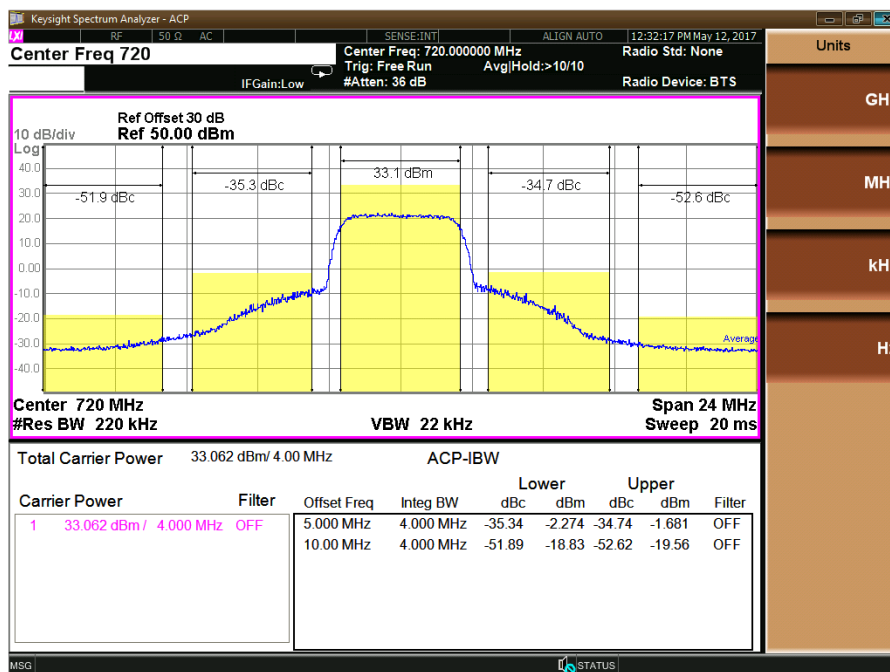




Pout=0.6W @WCDMA 720MHz



Pout=1W @WCDMA 720MHz

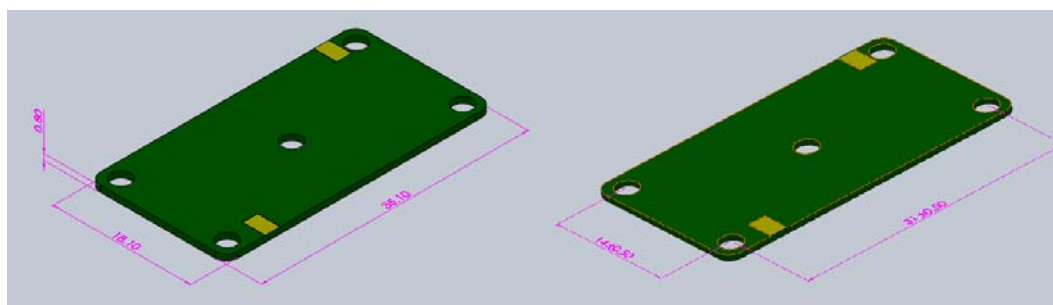


Pout=2W@WCDMA 720MHz

### Absolute Maximum Ratings

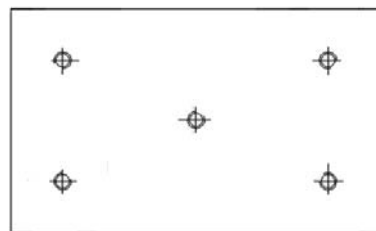
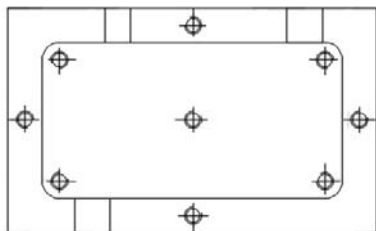
Parameter	Absolute Maximum
RF Input Power	-5.0 dBm
Supply Voltage	+14V
Operating Temperature	-40°C to +65°C
Storage Temperature	-55°C to +100°C

板子尺寸图:



铝合金腔体螺孔示意图:





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