Suzhou Talent Microwave,Inc
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Solid State High Power Amplifier Systems

0.3-6GHz/50dB Gain/50 dBm Psat/220V AC Model: TLPA0.3G6G-50-50-BC

TLPA0.3G6G-50-50-BC is a solid state high power amplifier systems provides high output power and high gain across the 0.3 to 6 GHz frequency range. The amplifier features a built-in 220V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Frequency range: 0.3-6GHz
- Gain: 50dB Min
- Psat Output Power:50dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	Band A: 0.3-2; Band B: 2-6			GHz
Power Gain	GP	50			dB
Gain flatness	ΔGL		±3.5		dB
Gain adjust Range	ΔGR		31.5		dB
Gain adjust Step	ΔGS		0.5		dB
Output Psat	Psat	50			dBm
Spurious@Pout=50dBm	Spur			-60	dBc
Harmonics@Pout=50dBm	HAM		-10		dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
AC Supply Current	Iac		4		A
Power Consumption	Pdiss			850	W
Impedance	I/O-IMP	50			Ohms

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Mechanical Specifications:

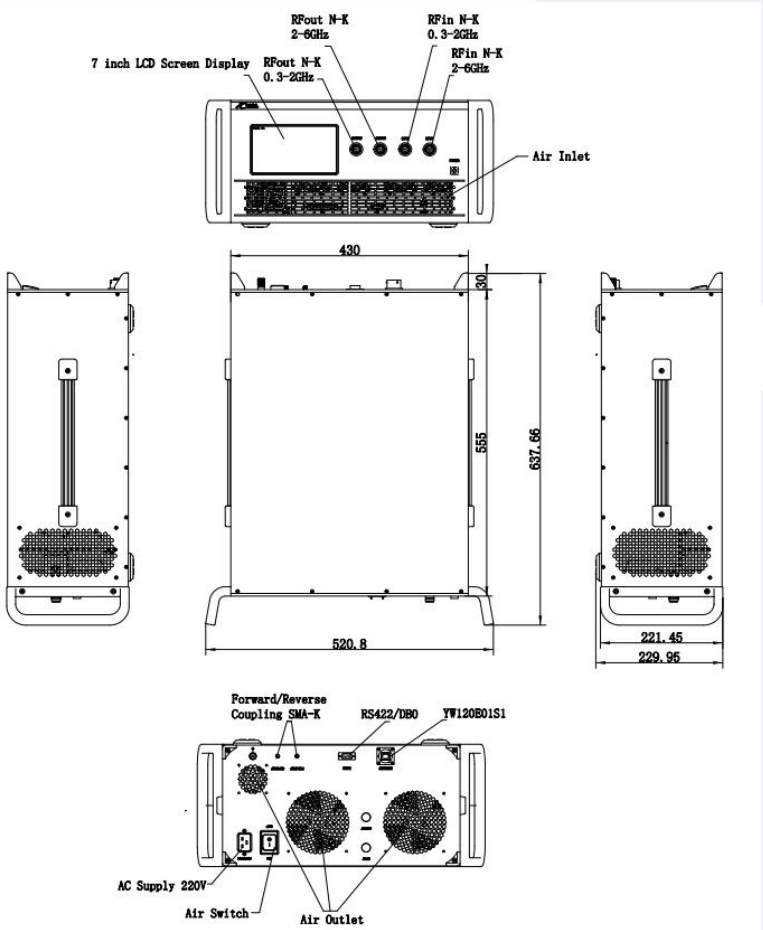
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
AC Power Interface	Air switch	
Size	19 Inch 4U*550	mm
Weight	≤35	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+5 dBm
Supply Bias Voltage	260V AC
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Regulatory Compliance:

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Key Features:

Parameter	Advantages
Control functions	1, Power setting On/Off 2,ALC automatic level control
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	℃
Non-operating Temperature*	-30		+50	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Base Number	Desciption	Revision
TLPA0.3G6G-50-50-BC	Solid State High Power Amplifier Systems 0.3-2GHz,Gain:50dB,Psat:50 dBm,220V AC,Built in Fan Cooling	Rev.1.1

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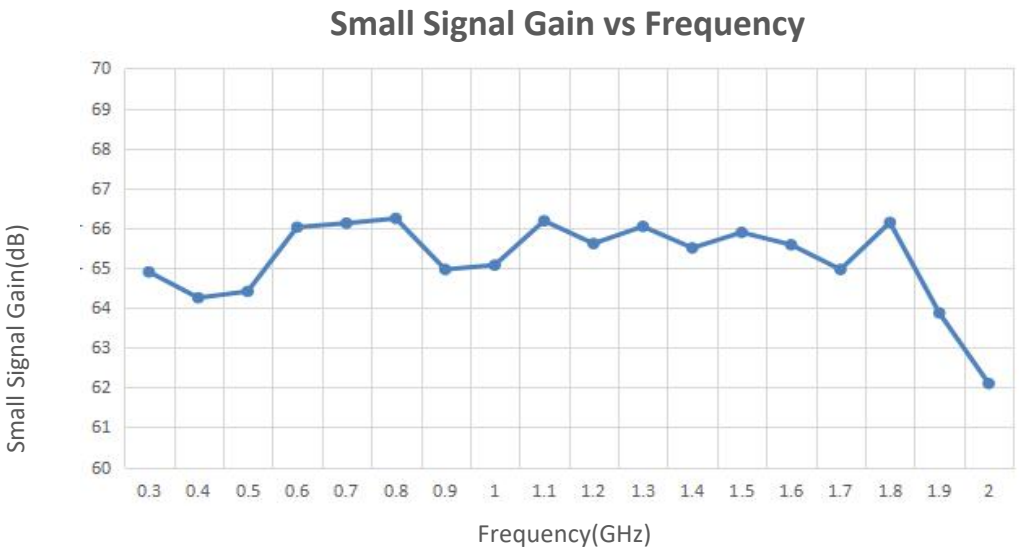
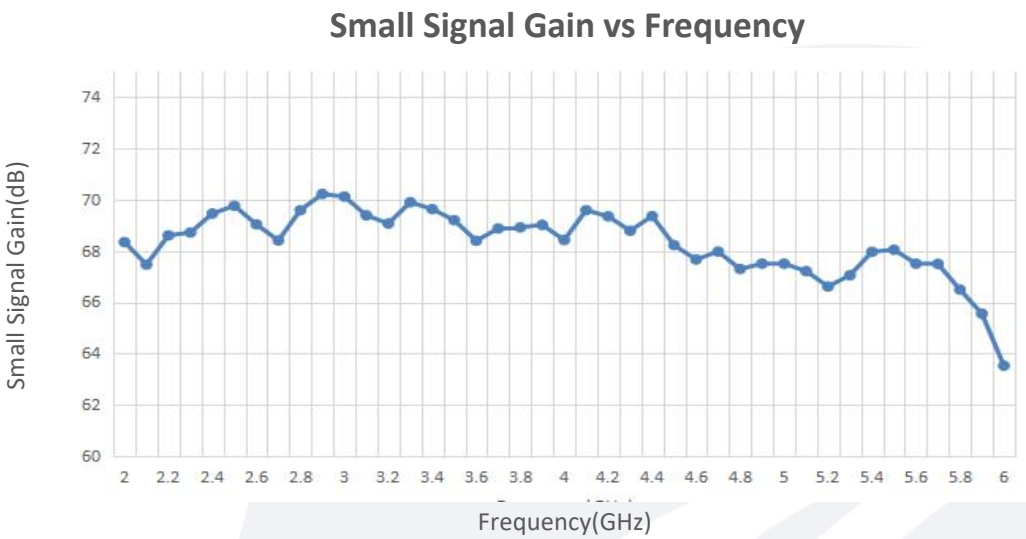
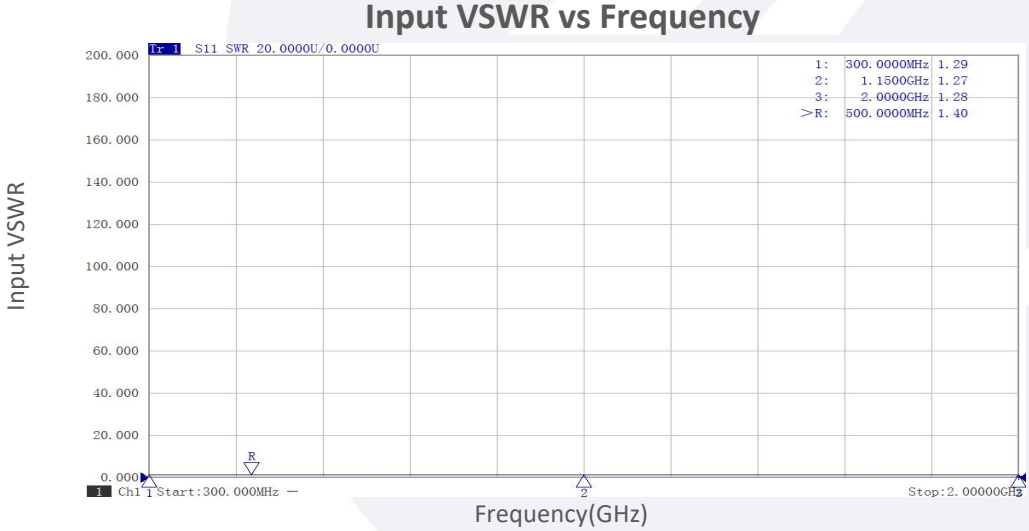
Typical Performance Data:







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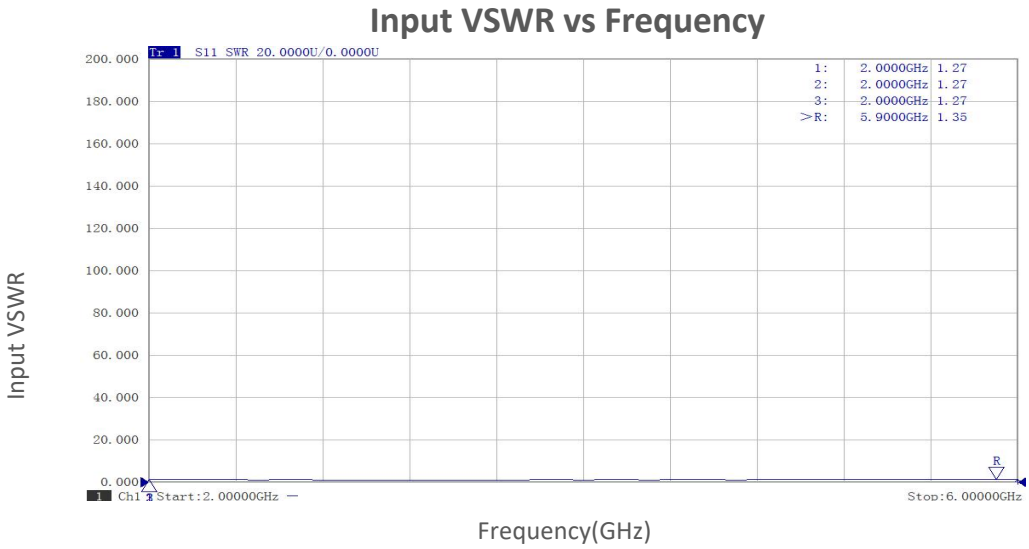

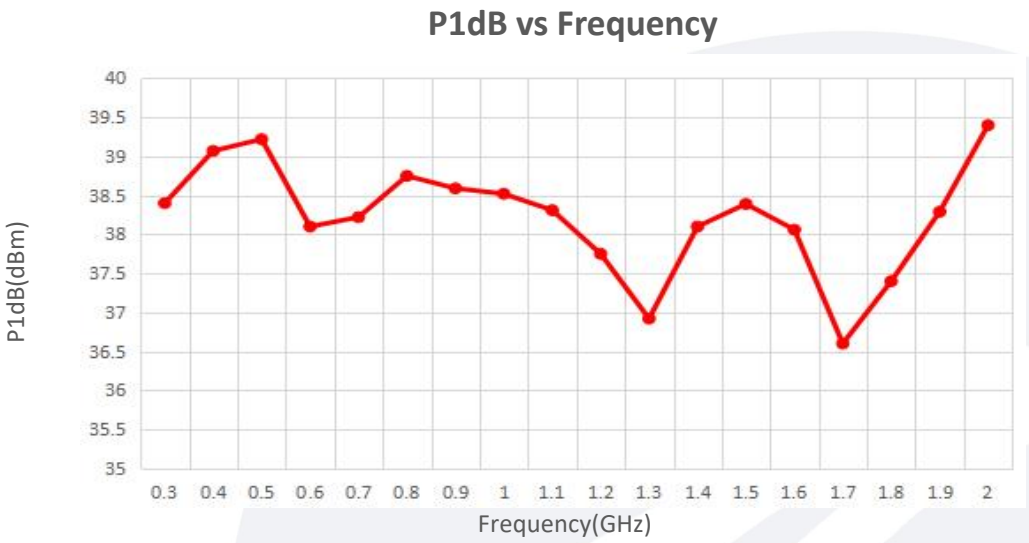

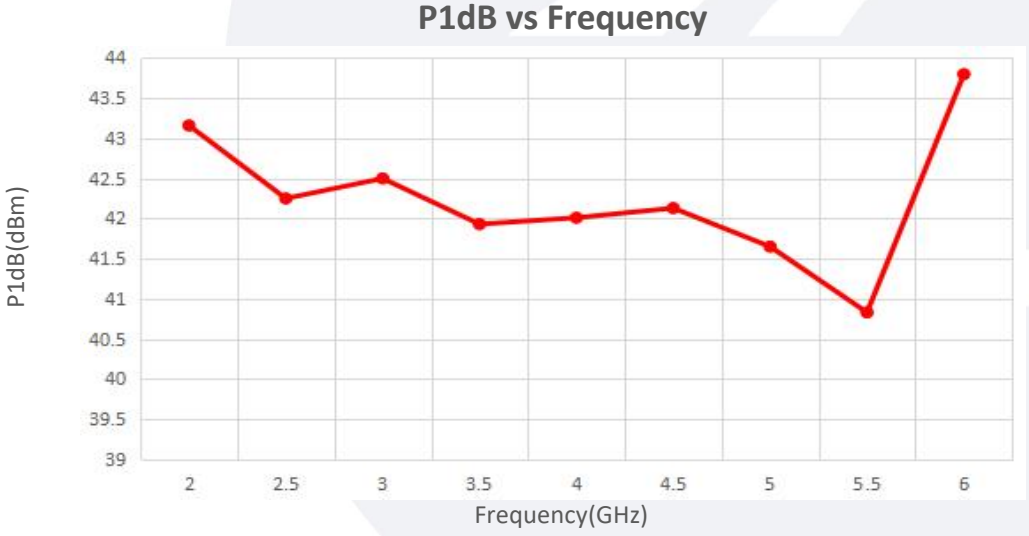

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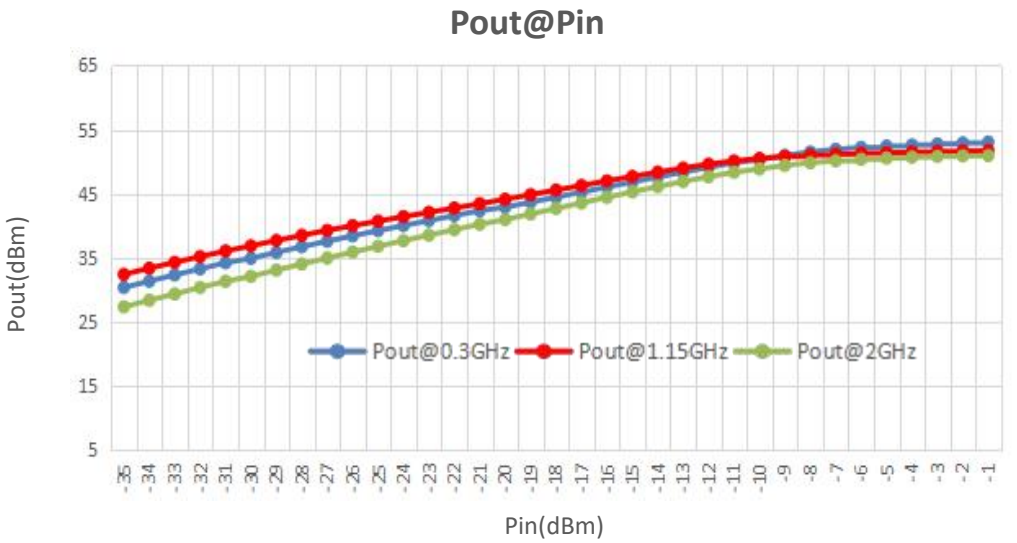

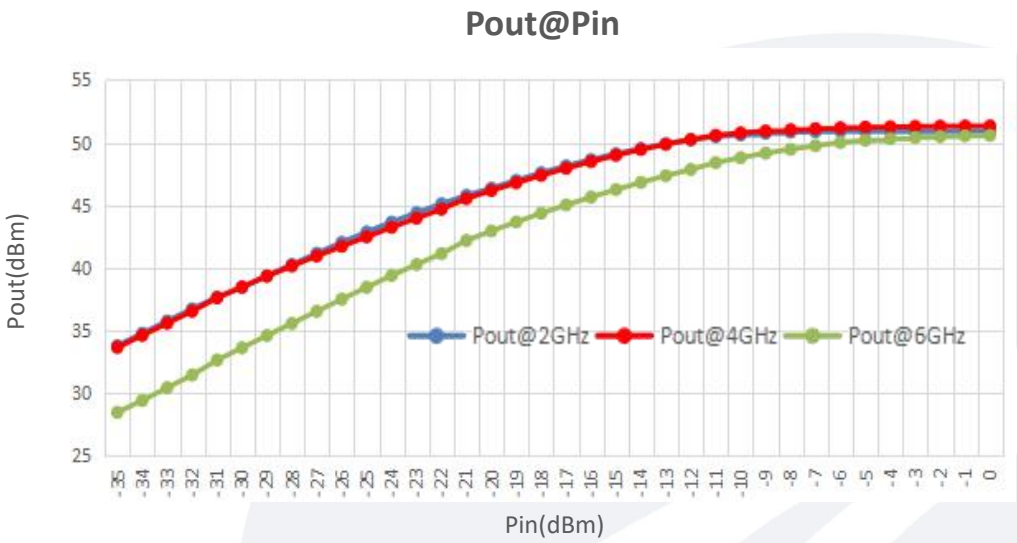

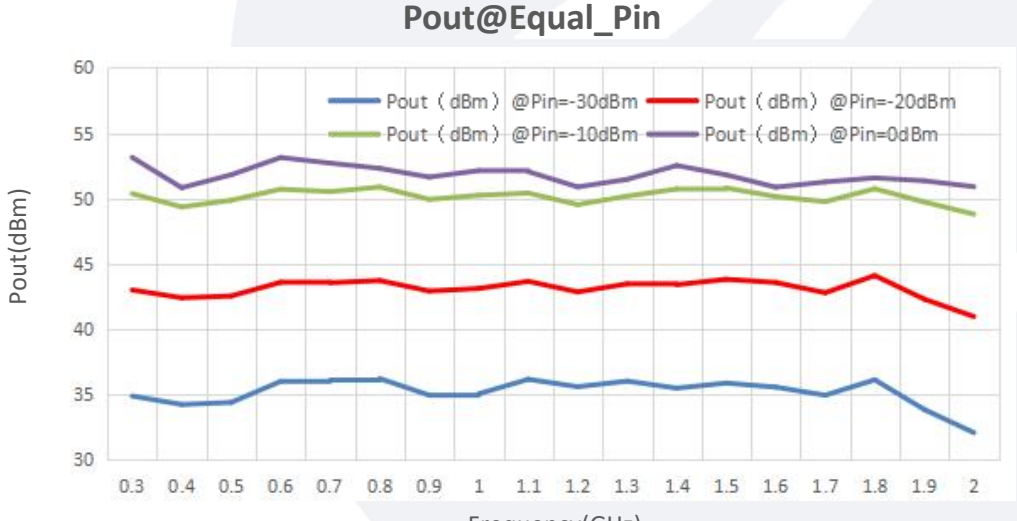

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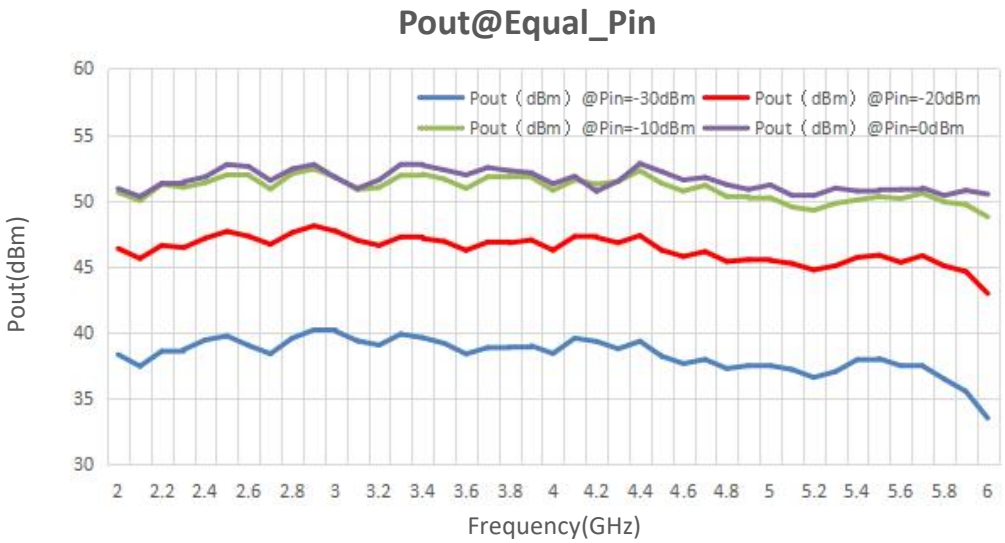

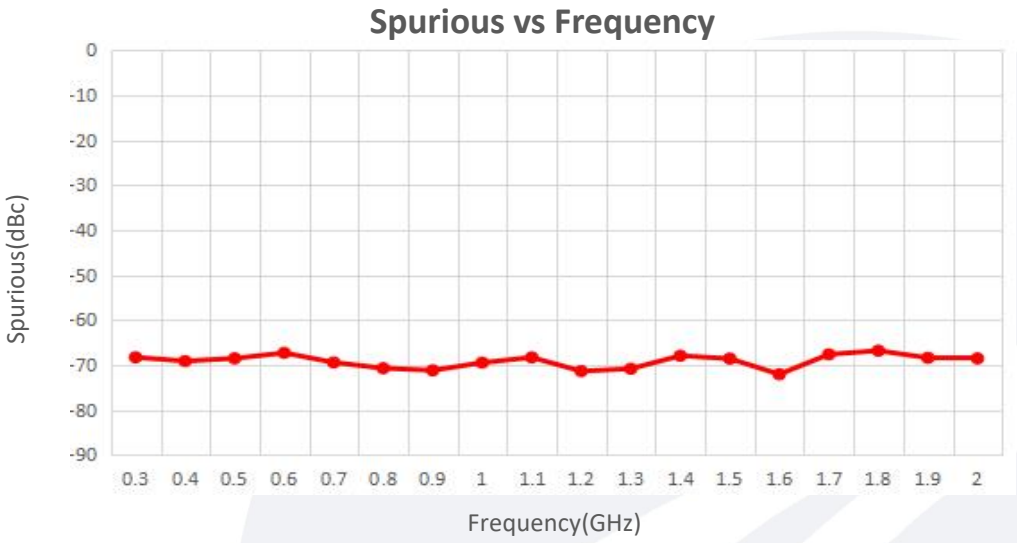

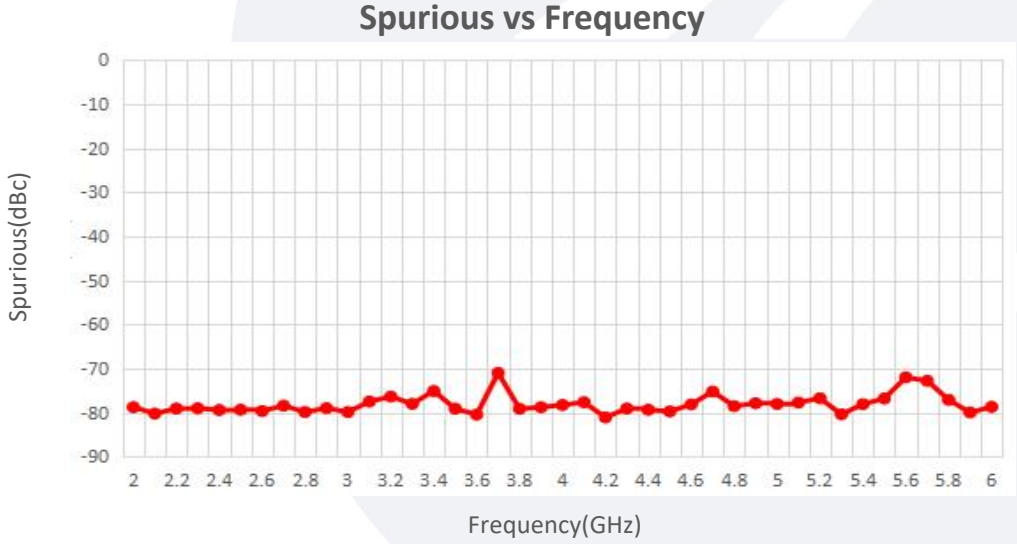

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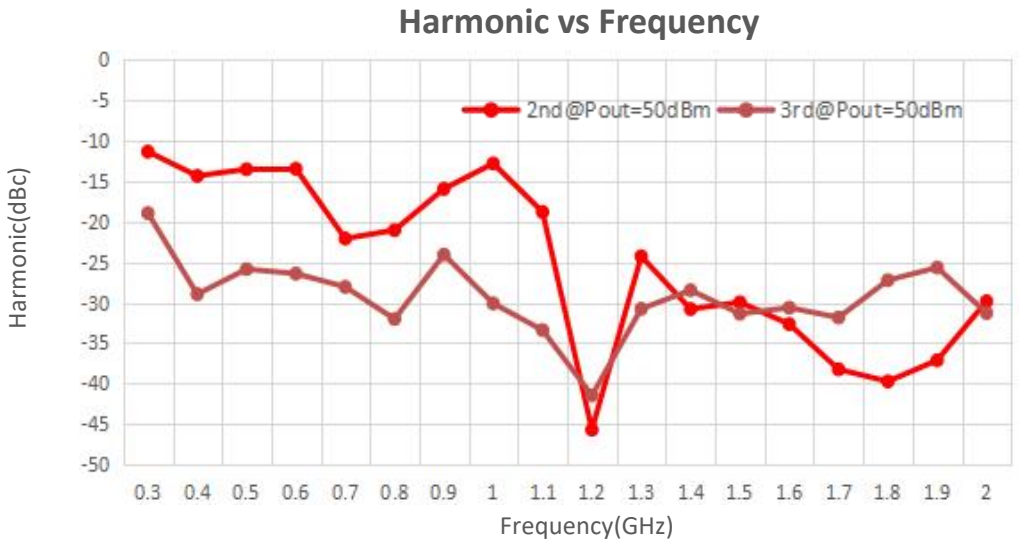

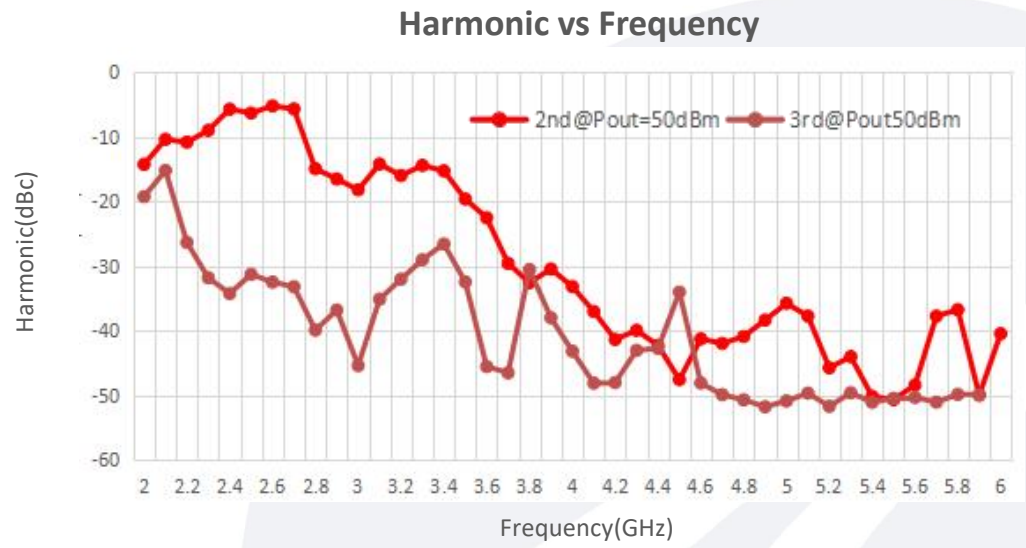

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