

Model:TLPA27G32G-56-56-BC
**Solid State High Power Amplifier Systems
 27-32GHz,Gain:56dB,Psat:56 dBm,220V AC**
Feature:

- Wide Band: 27-32GHz
- Gain: 56dB Min
- Psat Output Power:56dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency range	BW	27-32			GHz
Gain	GP	56			dB
Gain flatness	Δ GL		\pm 3		dB
Output Psat	Psat	56			dBm
Spurious	Spur			-55	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss		5500	6000	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

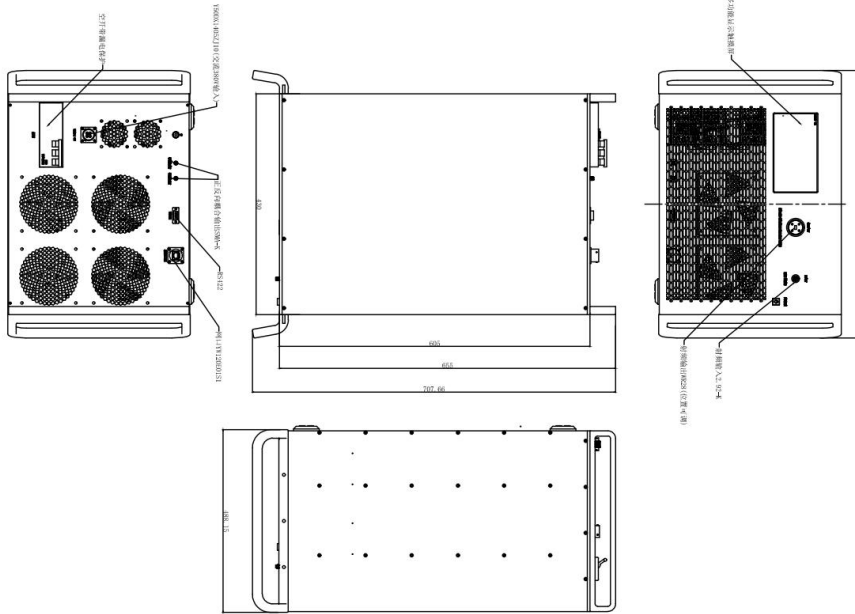
Parameter	Value	Units
Input /Output Connector	2.92mm Female/WR-28	
Forward/Reverse Coupling	2.92mm Female/2.92mm Female	
Communication Connector	DB9/RJ-45	
Size	19 Inch 8U*550	mm
Weight	\leq 80	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Parameter	Advantages
Control functions	1, Power setting On/Off 2, ALC automatic level control
Display functions	Displays the current output power, reflected power, and fault information
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Control	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°C
Relative humidity		95		%
Altitude	10000			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.

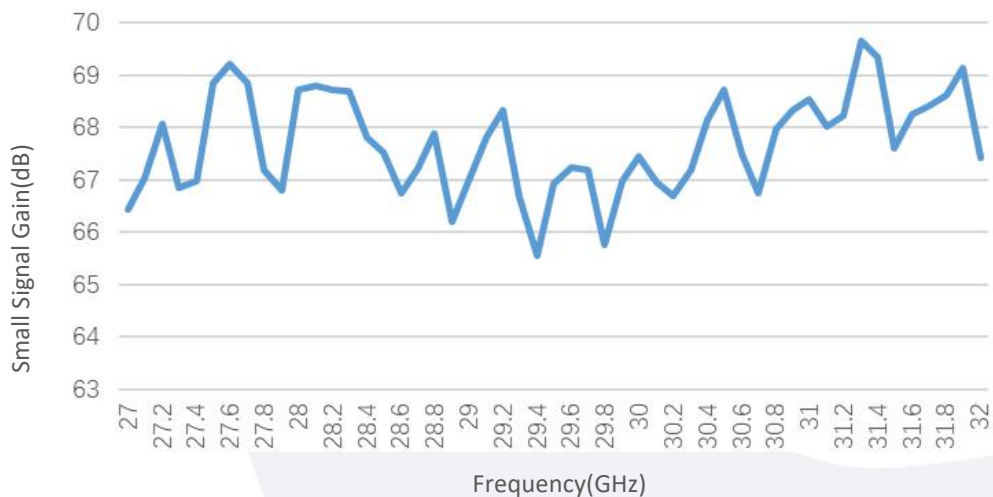
Ordering Information:

Part Number	Description	Revision
TLPA27G32G-56-56-BC	Solid State High Power Amplifier Systems 27-32GHz,Gain:56dB,Psat:56 dBm,220V AC,Built in Fan Cooling	Rev.1.0

Typical Performance Data:

Test TEM=21°C:

Small Signal Gain vs Frequency

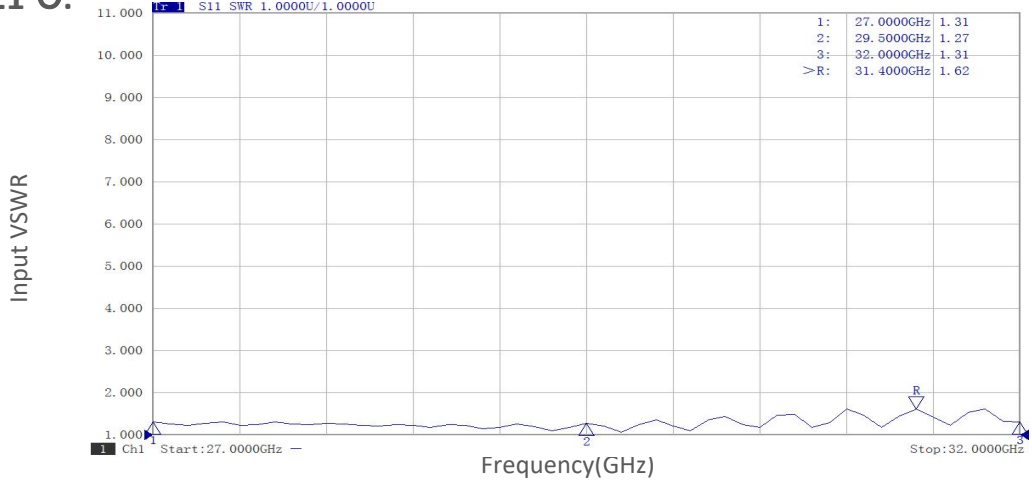


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

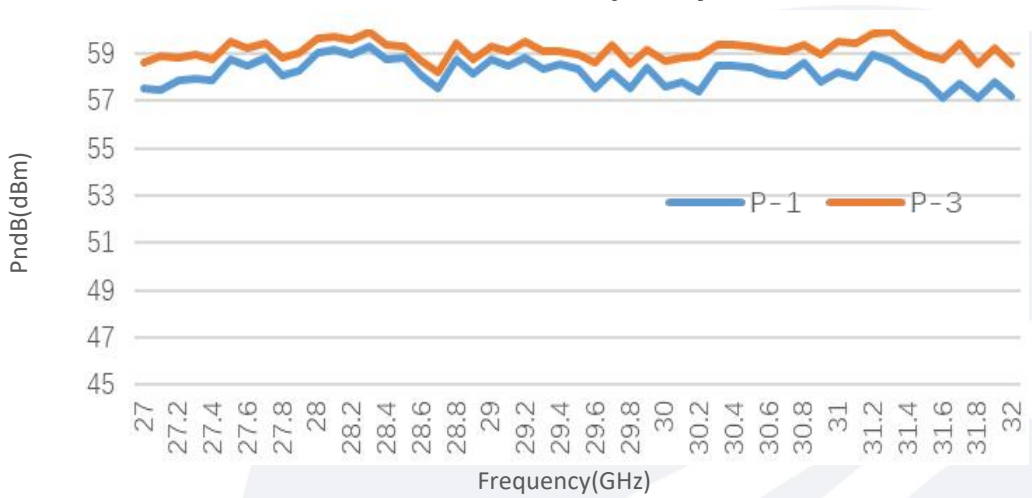
Typical Performance Data:

Test TEM=21°C:

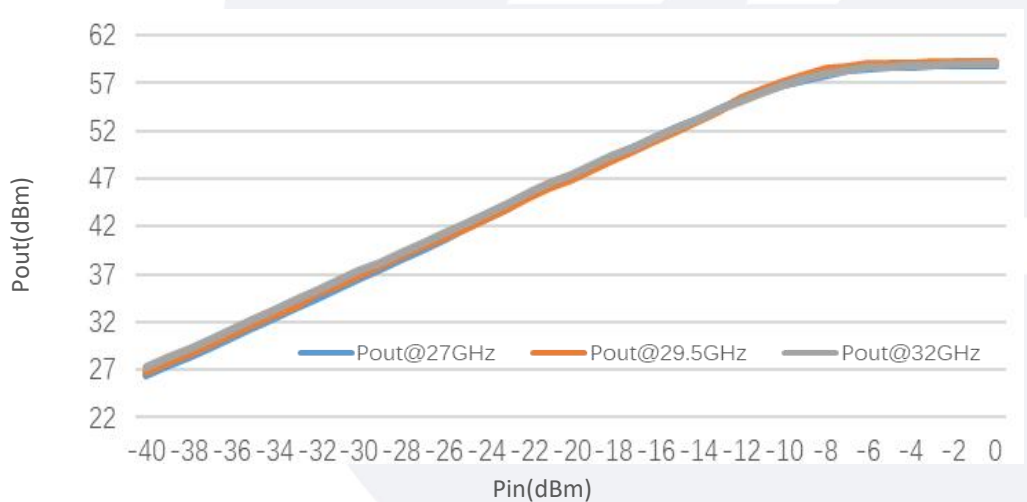
Input VSWR vs Frequency



PndB vs Frequency



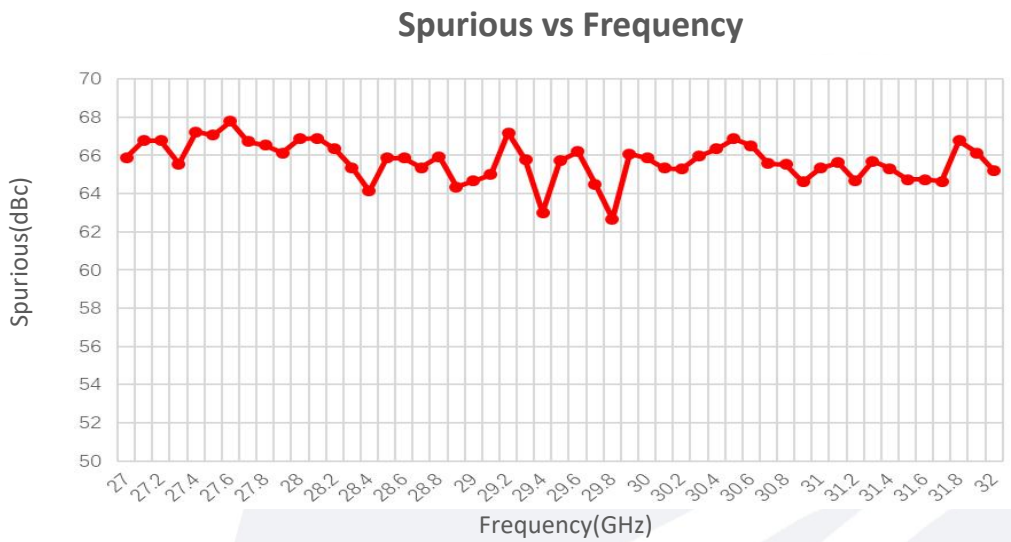
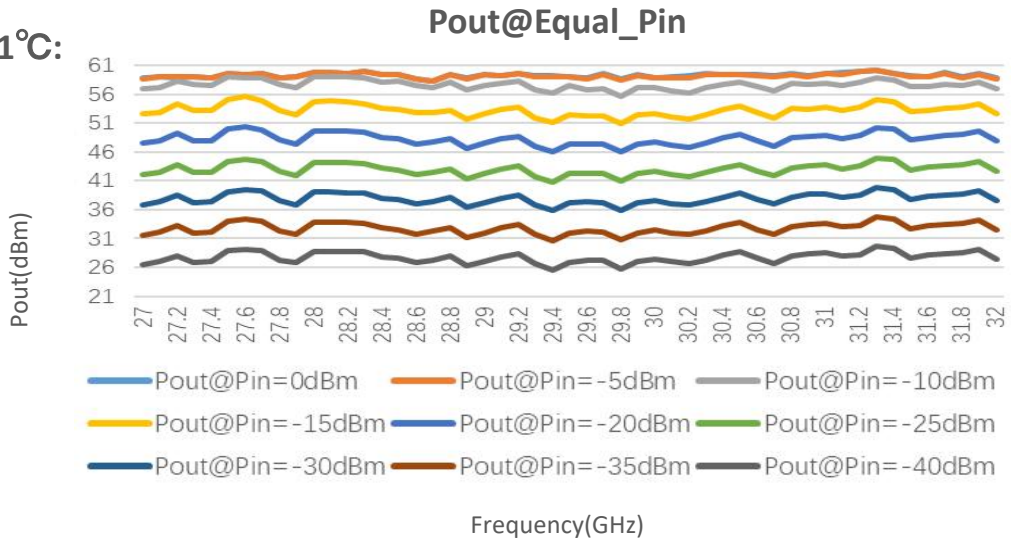
Pout@Pin



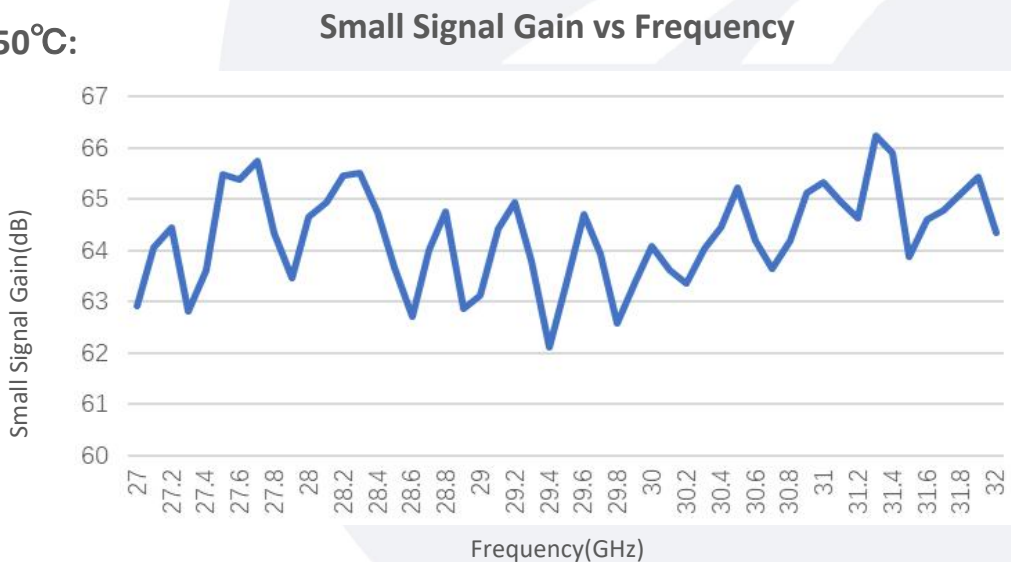
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Typical Performance Data:

Test TEM=21°C:



Test TEM=50°C:

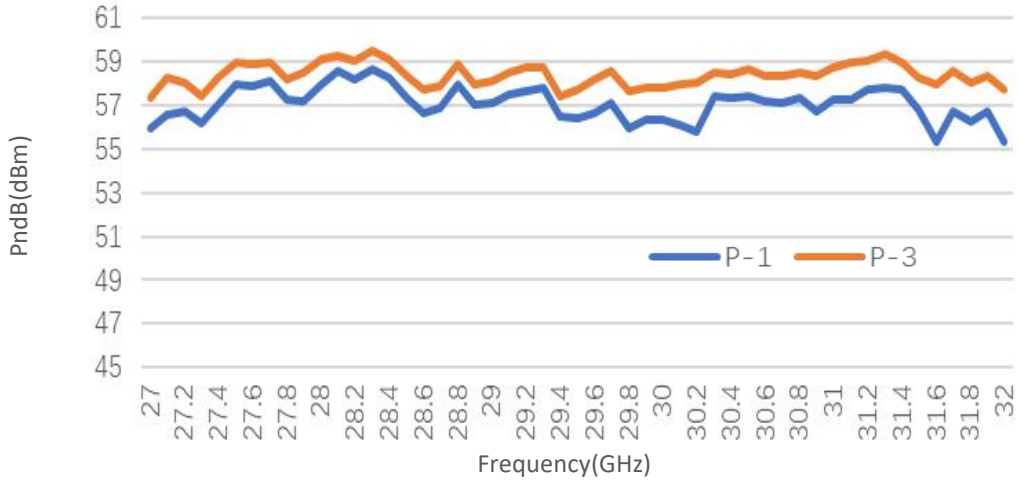


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

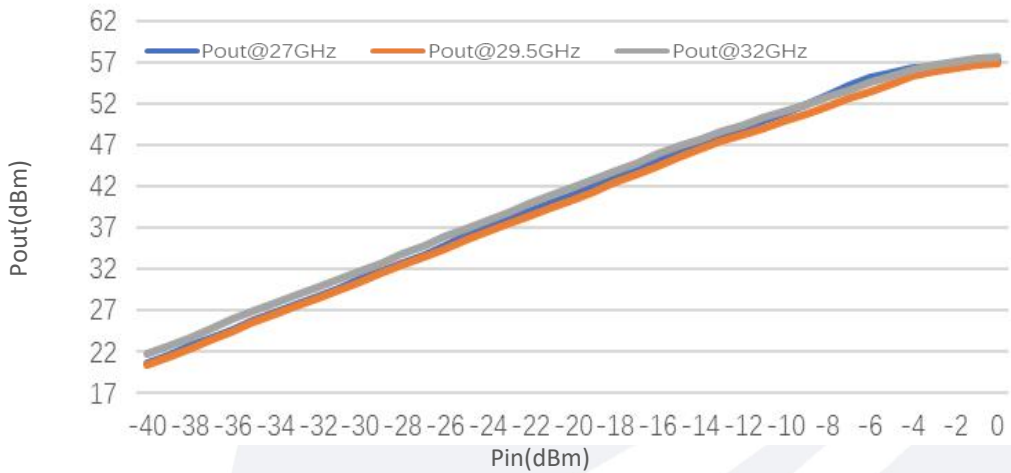
Typical Performance Data:

Test TEM=50°C:

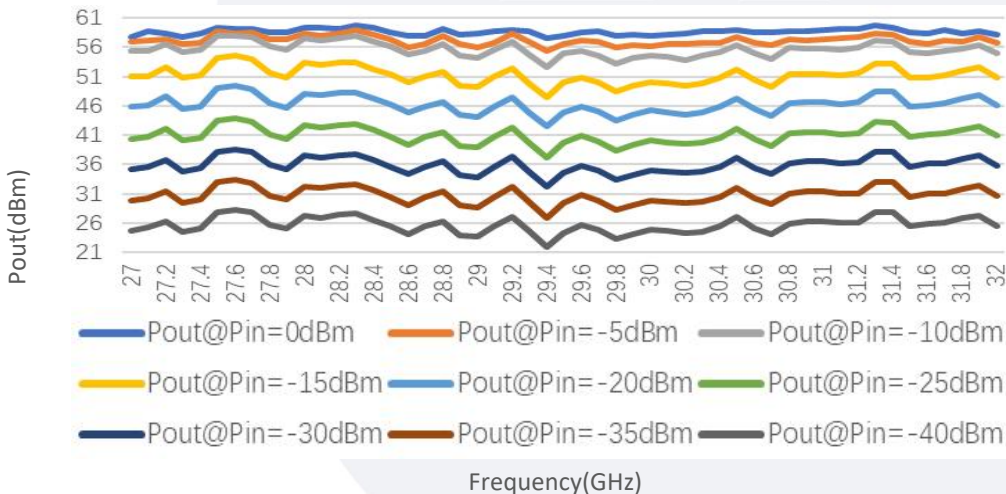
PndB vs Frequency



Pout@Pin



Pout@Equal_Pin

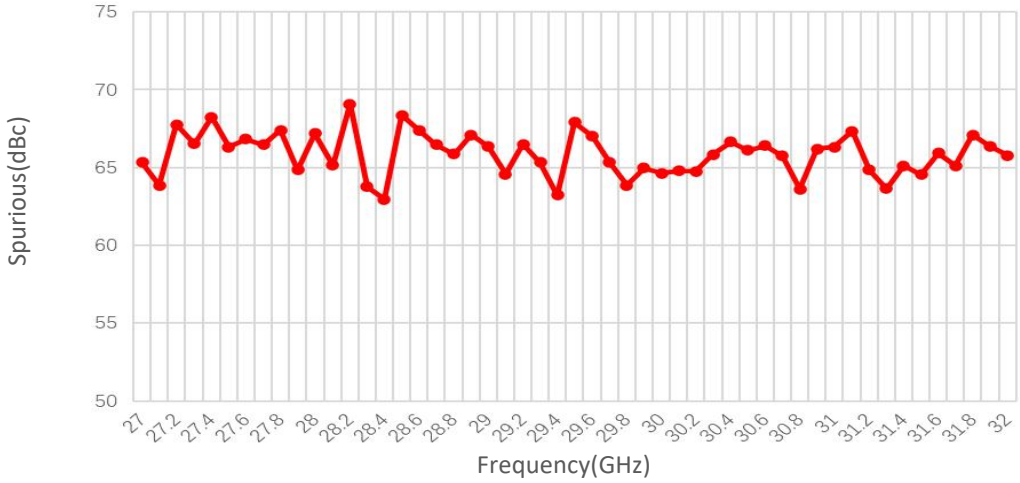


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

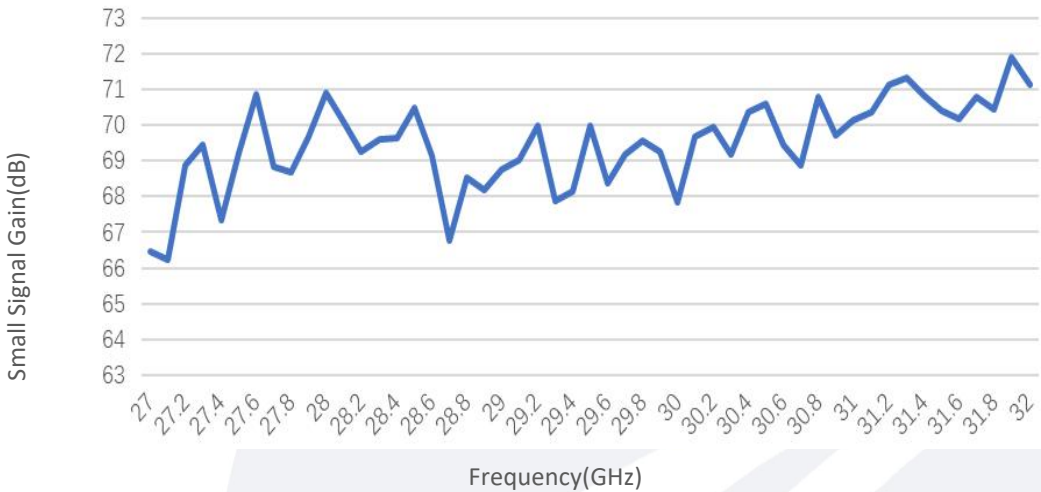
Test TEM=50°C:

Spurious vs Frequency

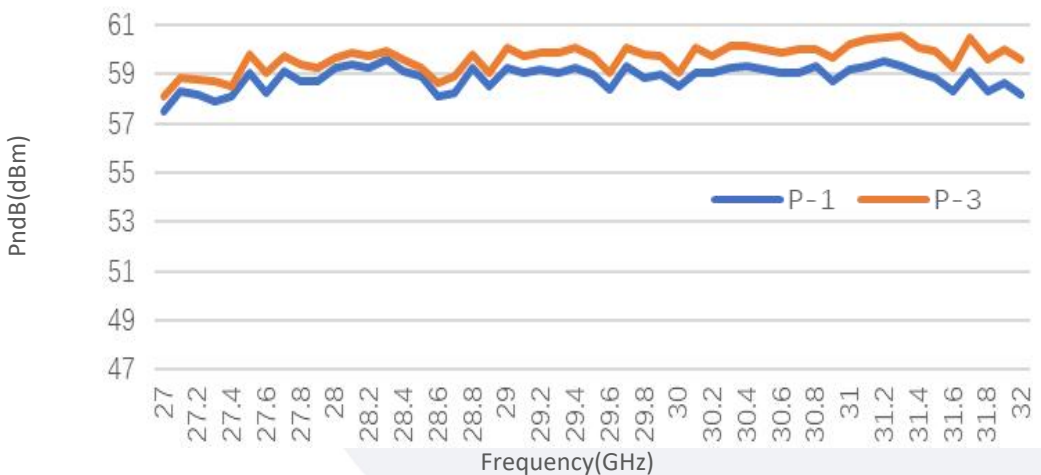


Test TEM=-20°C:

Small Signal Gain vs Frequency



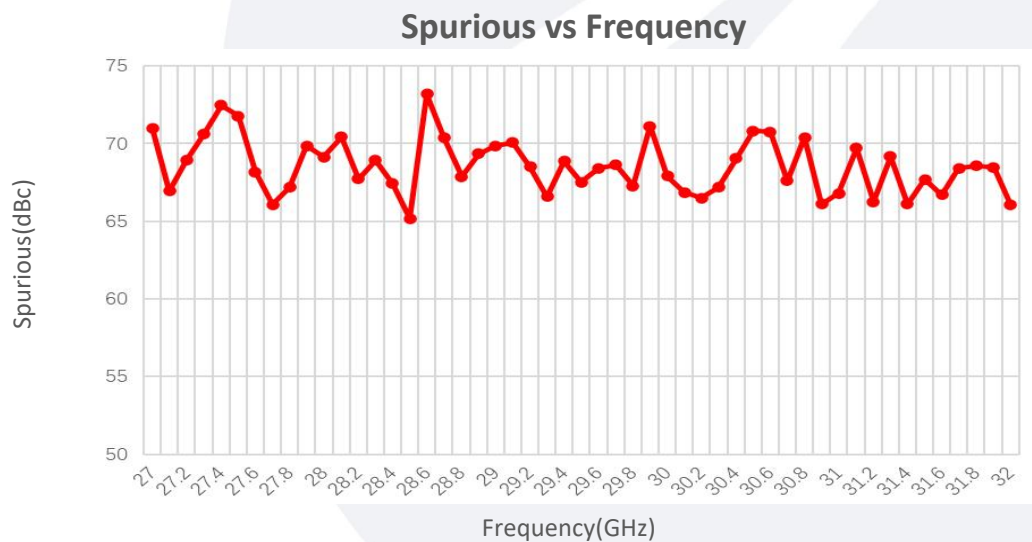
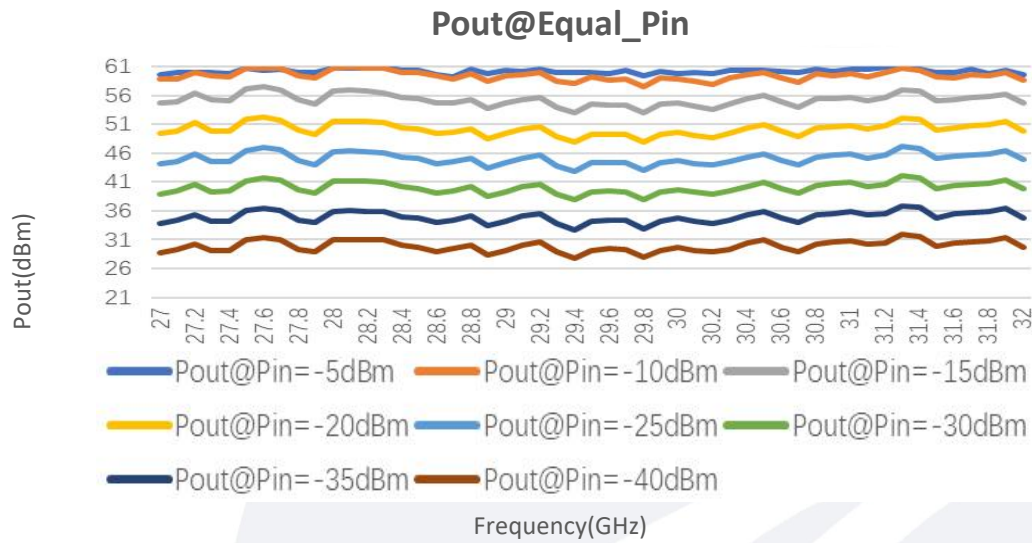
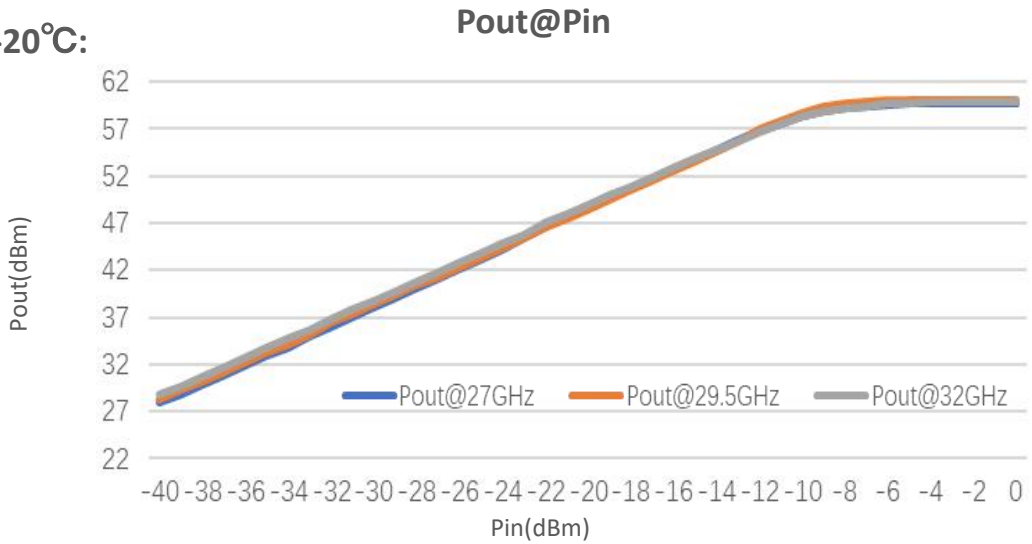
PndB vs Frequency



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Typical Performance Data:

Test TEM=-20°C:



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