

Model:TLPA700M2.2G-62-32

Power Amplifier

0.7-2.2GHz,Gain:62dB,P1dB:32dBm

Feature:

- Ultra Wide Band: 0.7-2.2GHz
- Gain:62dB Min
- P1dB Output Power:32dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.7-2.2			GHz
Gain	62			dB
Gain Flatness			±2	dB
Output P1dB	32			dBm
Noise Figure		2.5	3	dB
Harmonics			-25	dBc
Input VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Supply Current		2000		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	140*80*22	mm
Weight	200	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+32V
RF Input Power	-20dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**



Environmental Conditions:

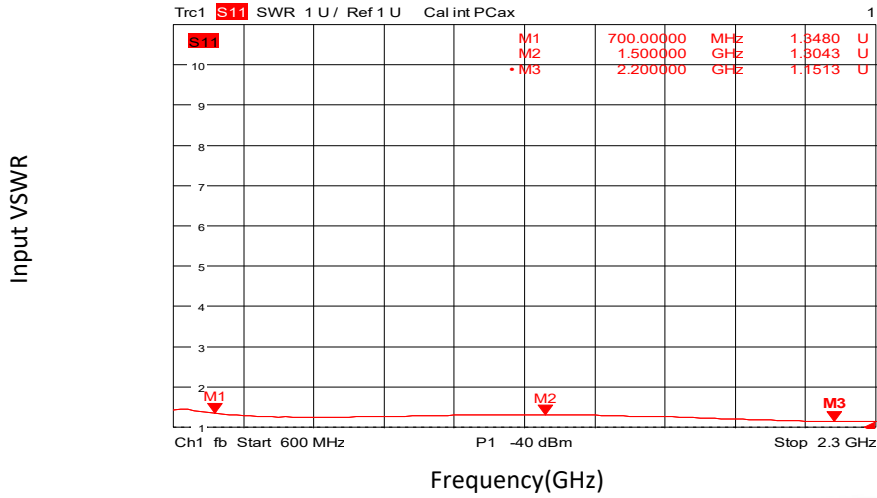
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

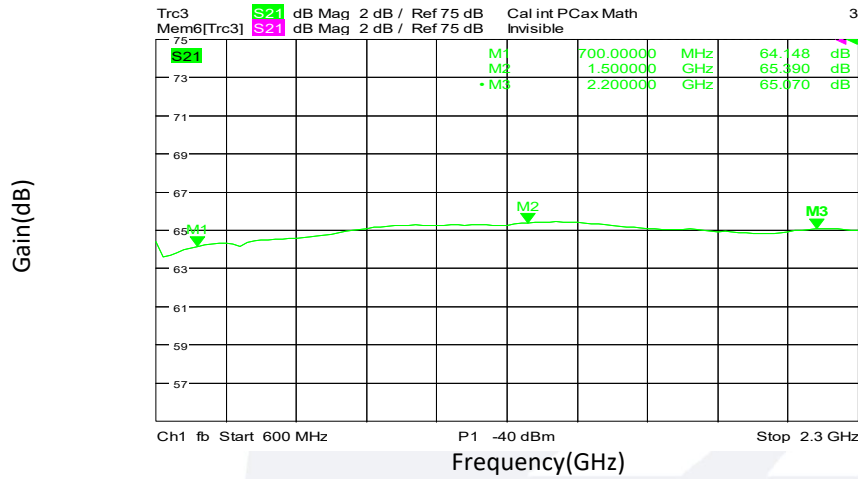
Part Number	Description	Revision
TLPA700M2.2G-62-32	Power amplifier 0.7-2.2GHz,Gain:62dB,P1dB:32dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA700M2.2G-62-32-HS	Power amplifier 0.7-2.2GHz,Gain:62dB,P1dB:32dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

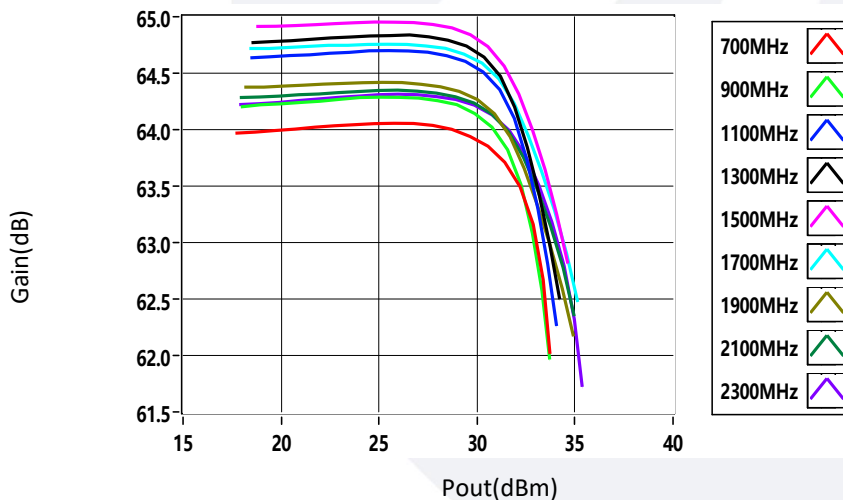
Input VSWR vs Frequency



Gain vs Frequency

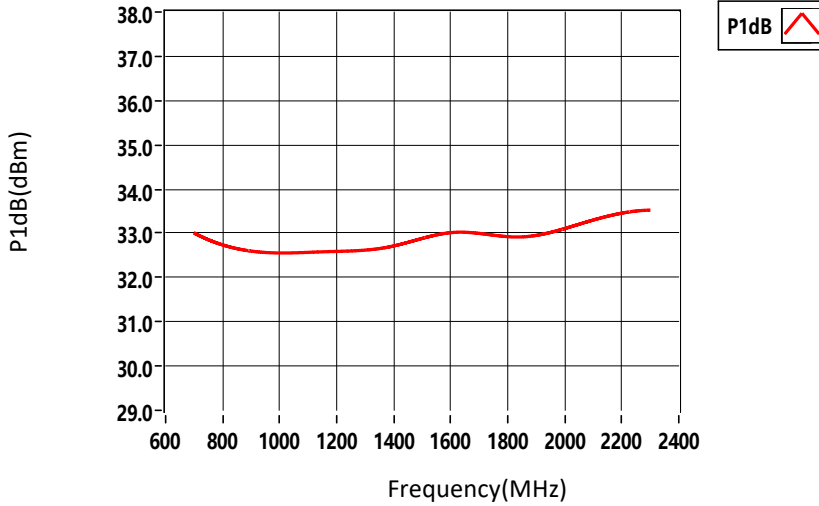


Gain vs Output Power

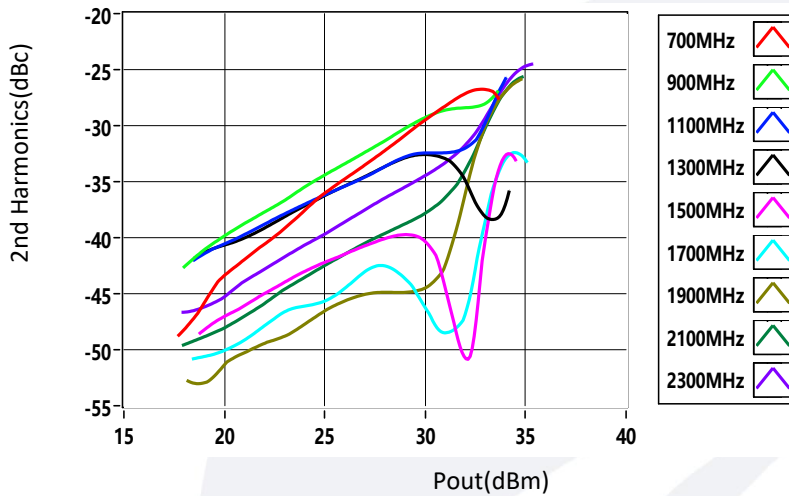


Typical Performance Data:

P1dB vs Frequency



2nd Harmonics VS Output Power



3rd Harmonics VS Output Power

