

Model:TLPA40G67G-39-34

Power Amplifier 40-67GHz, Gain:39dB, Psat:34dBm

Feature:

- Ultra Wide Band:40-67GHz
- Gain:39dB Typ
- Psat Output Power:34dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter		Min	Typ	Max	Units
Frequency range		40-67			GHz
Gain	40-60G	35	39		dB
	60-67G	33	35		
Output P1dB			29		dBm
Output Psat		33	34		dBm
Input VSWR			5.8		:1
Output VSWR			2.3		:1
DC Voltage			+20	+24	V DC
DC Supply Current			2.05		A
Impedance		50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	1.85 Female/1.85 Female	
DC Bias	Solder Pin	
Size	/	mm
Weight	230	g

Absolute Maximum Ratings:

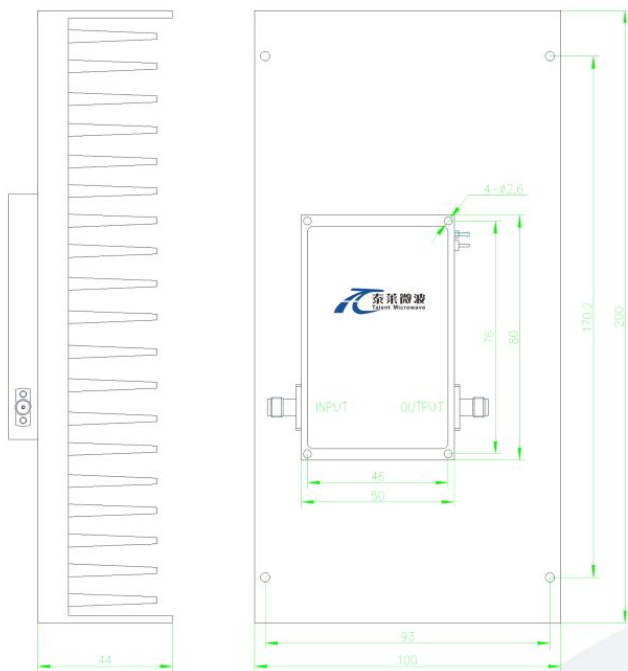
Parameter	Value
Supply Bias Voltage	+24V
RF Input Power	15dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature*	-40		+60	°C
存储温度 Non-operating Temperature*	-50		+70	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
冲击 Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

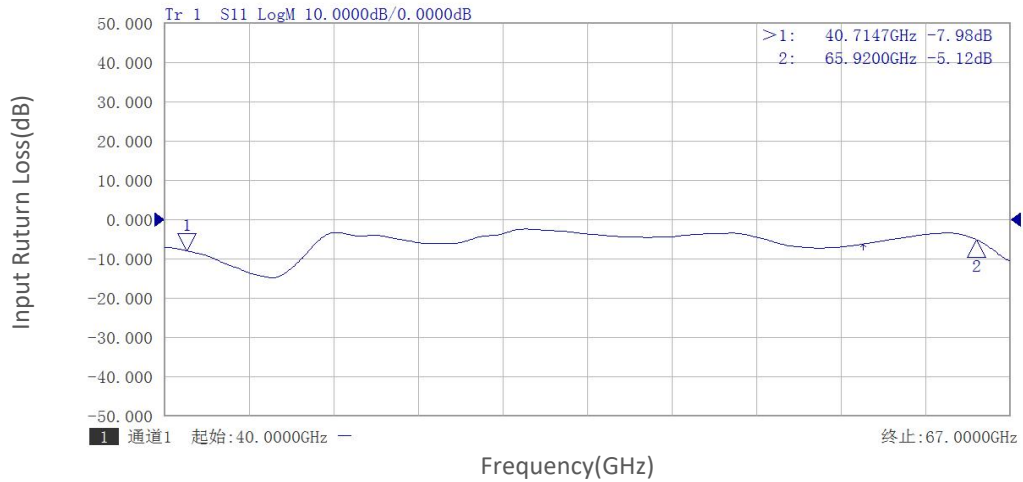
*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

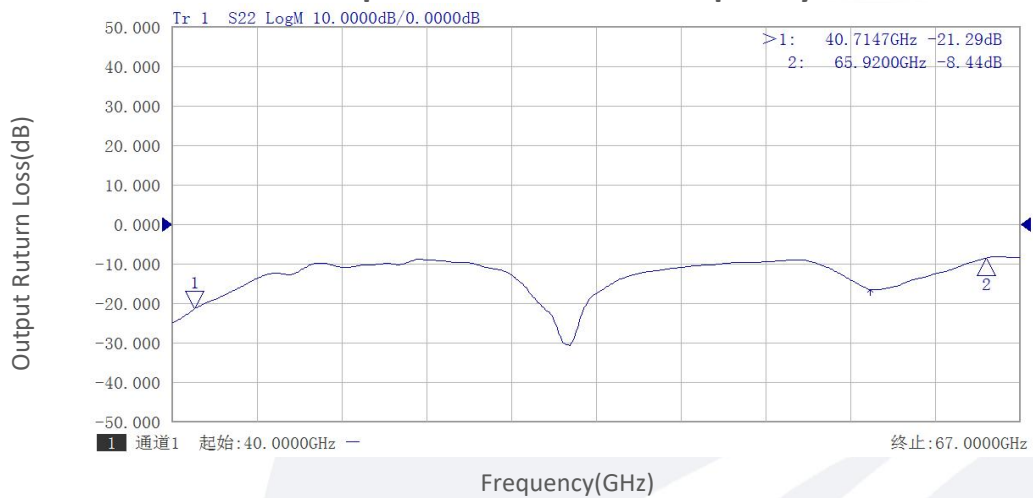
Part Number	Description	Revision
TLPA40G67G-39-34	Power amplifier 40-67GHz,Gain:39dB,Psat:34dBm,+24V DC,Without Heatsink.	Rev.1.1
TLPA40G67G-39-34-HS	Power amplifier 40-67GHz,Gain:39dB,Psat:34dBm,+24V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

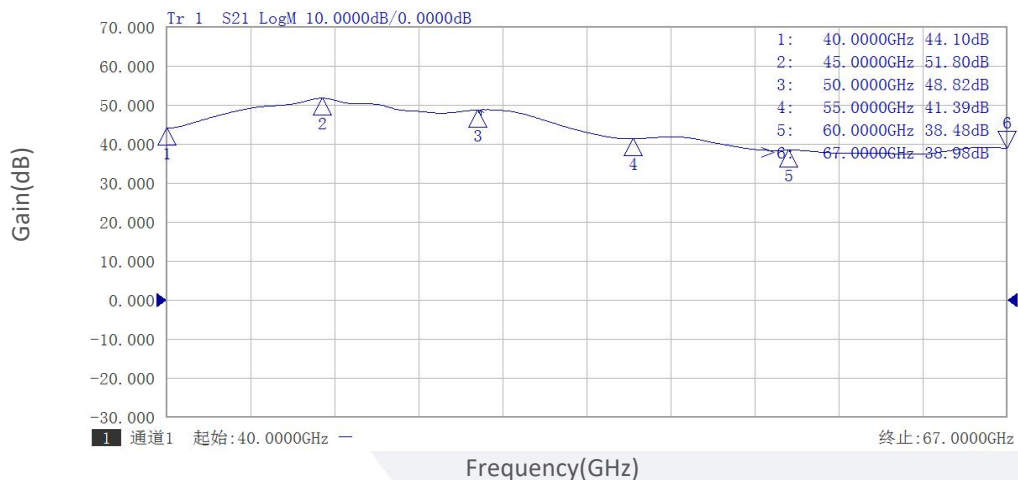
Input Return Loss vs Frequency



Output Return Loss vs Frequency



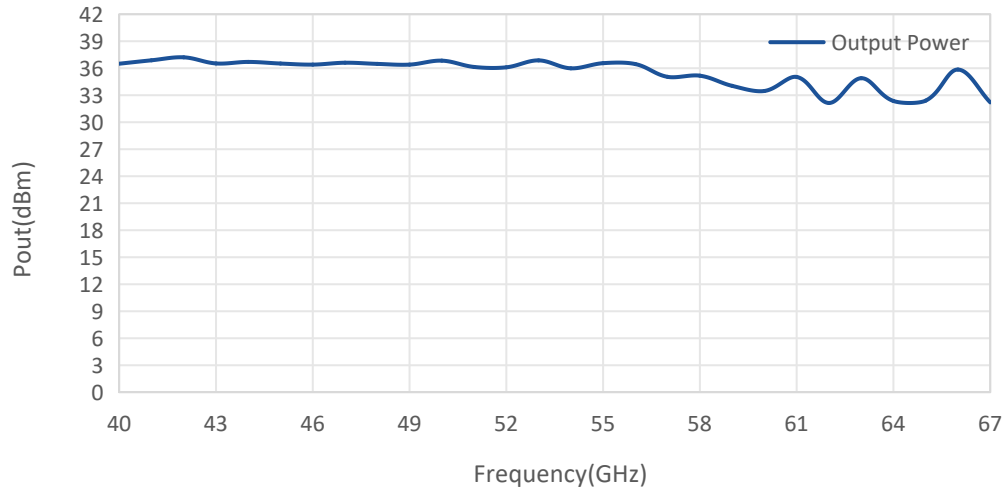
Small Signal Gain vs Frequency



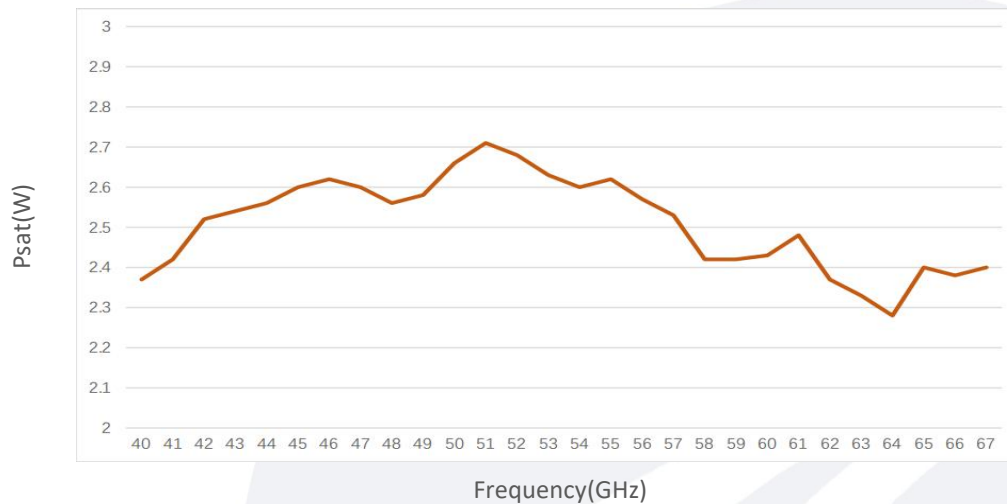
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

Pout vs Frequency



Psat 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.