Suzhou Talent Microwave,Inc
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Power Amplifier

2-6GHz /42dB Gain/28 dBm Psat

Model: TLPA2G6G-42-28-LC

TLPA2G6G-42-28-LC is a power amplifier with a typical small signal gain of 42 dB and Psat of 28 dBm across the frequency range of 2 to 6 GHz. The DC power requirement for the amplifier is +5 VDC/400mA. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-6GHz
- Small Signal Gain:42 dB Typ
- Output Power Psat: 28 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range		2-6		GHz
Small Signal Gain		42		dB
Gain Flatness		±1.5		dB
Output Psat		28		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+5		V DC
DC Supply Current		400		mA
Impedance		50		Ohms

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Mechanical Specifications:

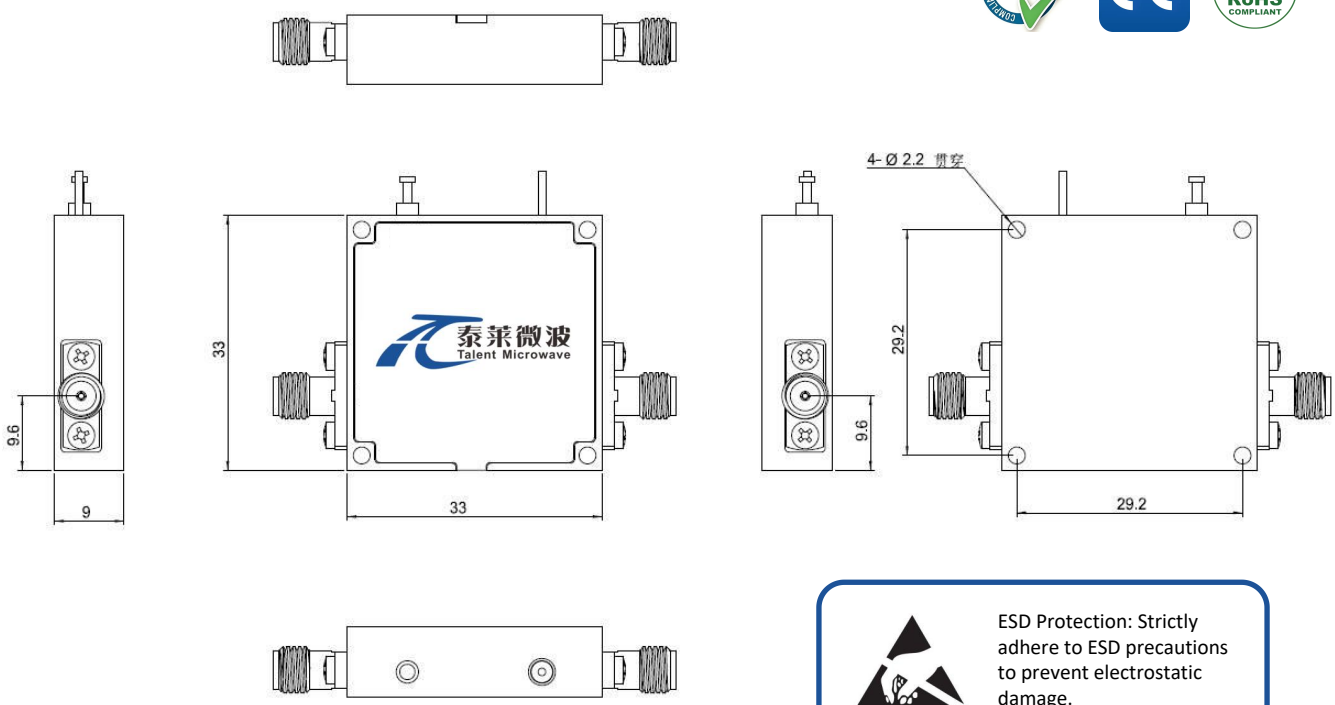
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	33*33*9	mm

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+5.5 V
RF Input Power	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Regulatory Compliance:

ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

***Heat Sink Required During Operation

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Environmental Conditions:

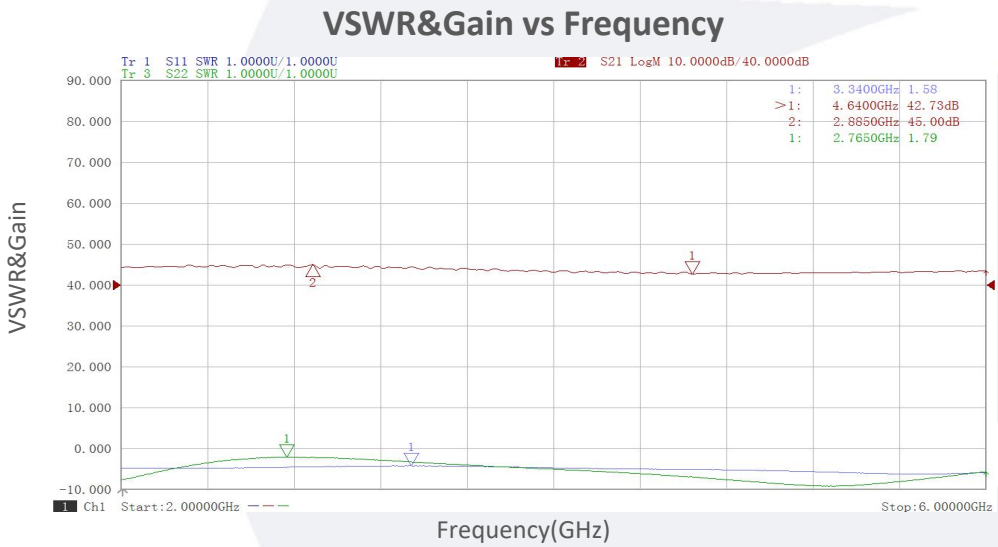
Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	℃
Non-operating Temperature*	-50		+70	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

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

Ordering Information:

Base Number	描述 Description	Revision
TLPA2G6G-42-28-LC	Power amplifier 2-6GHz, Power Gain:42dB,Psat:28dBm,+5V DC,With Heatsink	Rev.1.1

Typical Performance Data:



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.

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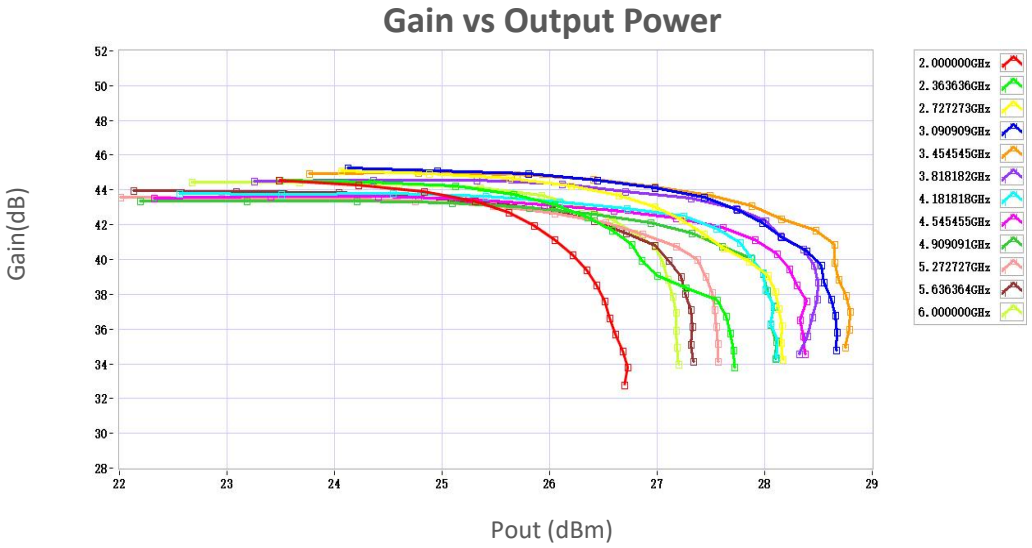

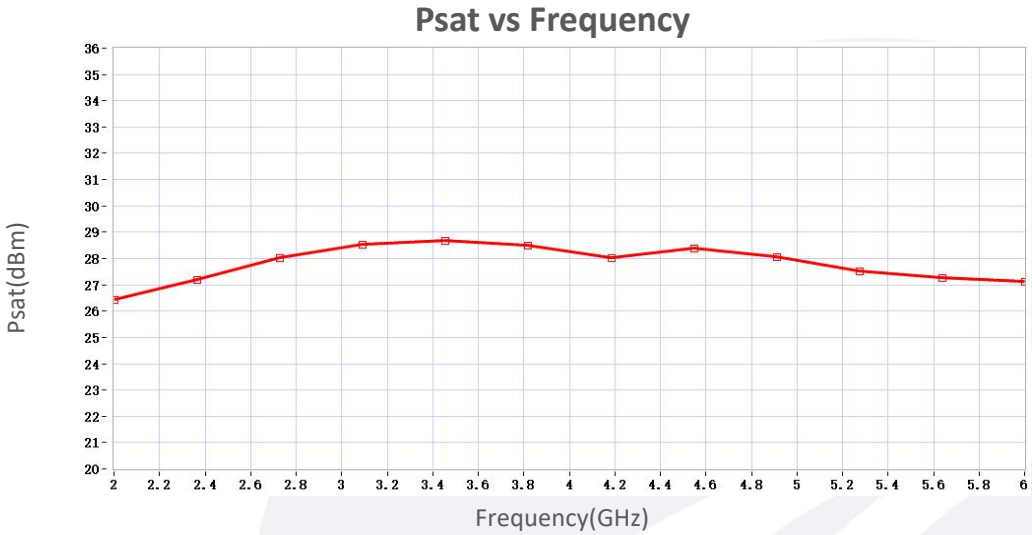

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