

Model: TMLA-076077-3245-12
Low Noise Amplifier
76-77GHz, NF:4.5 dB, Gain:32 dB
Feature:

- Ultra Wide Band: 76-77 GHz
- Gain:32dB Typ
- Noise Figure:4.5dB Typ
- Unconditional stability

Electrical Specifications:

Parameter		Min	Typ	Max	Units
Frequency range		76		77	GHz
Gain	@76.5G--77GHz	31	32	33	dB
	@76-77GHz	30	32	34	
Noise Figure		3.5	4.5	5	dB
Output P1dB		10	11		dBm
DC Voltage			+5		V
DC power supply			200		mA

Mechanical Specifications:

Parameter	Value	Units
Input Connector	WR-12/ UG-387/U	
Output Connector	WR-12/ UG-387/U	
Power Supply Pin	Solder Pin	
Size	48*42*24	mm

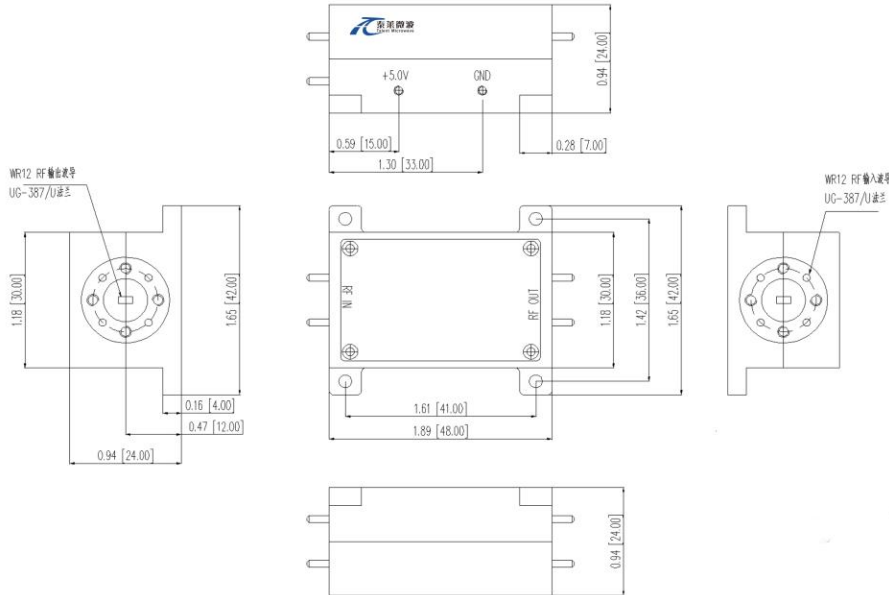
Absolute Maximum Ratings:

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


**Available 220V System
 Benchtop Amplifier**

Outline Drawing:

Unit: Inches(mm)



Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

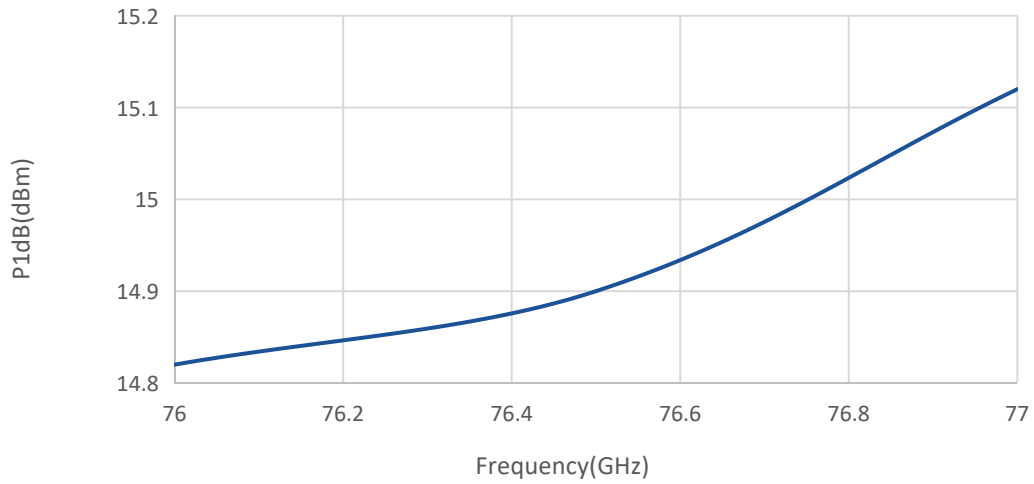
Parameter	Min	Typ	Max	Units
Operating Temperature	-25		+65	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TMLA-076077-3245-12	Low Noise Amplifier,76-77GHz, Noise Figure:4.5dB, Gain:32dB,+5V DC,WR-12	Rev.1.1

Typical Performance Data:

P1dB vs Frequency



Noise Figure vs Frequency

