

**Model: TMLA-050075-3845-15**

**Low Noise Amplifier**  
**50-75GHz, NF:4.5 dB, Gain:38 dB**

**Feature:**

- Ultra Wide Band: 50-75 GHz
- Gain: 38dB Typ
- Noise Figure:4.5dB Typ
- Unconditional stability

**Electrical Specifications:**

Parameter	Min	Typ	Max	Units
Frequency range	50		75	GHz
Gain	35	38		dB
Noise Figure		4.5		dB
Output P1dB		15		dBm
Input VSWR		2.5		:1
Output VSWR		2.5		:1
DC Voltage		+5		V DC
DC power supply		250		mA

**Mechanical Specifications:**

Parameter	Value	Units
Input Connector	WR-15/ UG-385/U	
Output Connector	WR-15/ UG-385/U	
Power Supply Pin	Solder Pin	
Size	45*42*42	mm

**Absolute Maximum Ratings:**

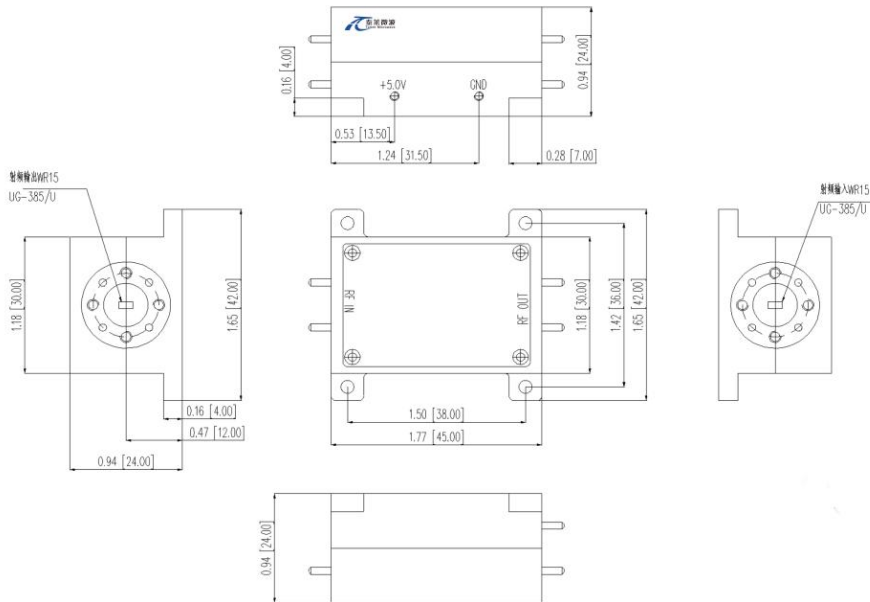
Parameter	Value
Supply Bias Voltage	+5 V
RF Input Power	TBD
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System  
Benchtop Amplifier

**Outline Drawing:**

Unit: Inches(mm)



**Environmental Conditions:**



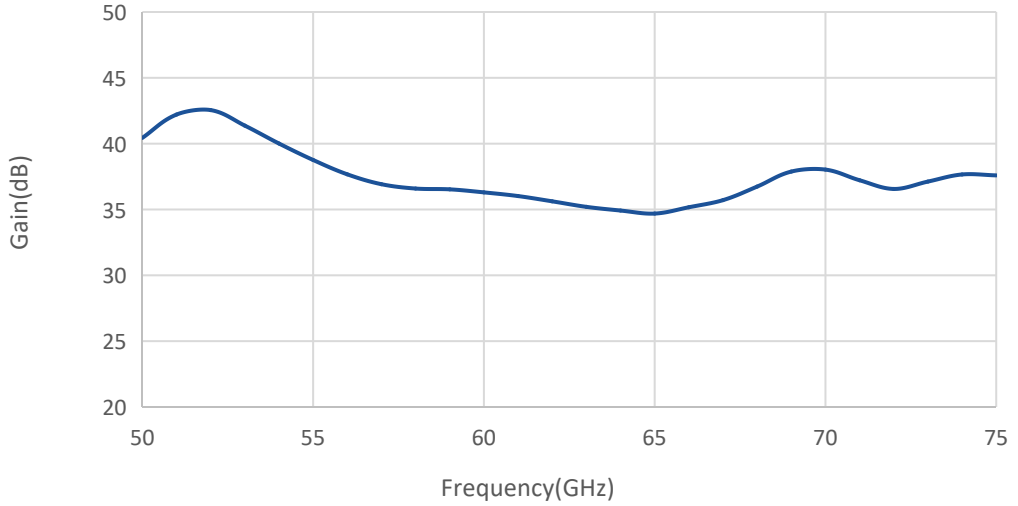
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+65	°C
Non-operating Temperature	-45		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

**Ordering Information:**

Part Number	Description	Revision
TMLA-050075-3845-15	Low Noise Amplifier,50-75GHz, Noise Figure:4.5dB, Gain:38dB,+5V DC,WR-15	Rev.1.1

Typical Performance Data:

Gain vs Frequency



Noise Figure vs Frequency

