

Model: TMLA-060090-4540-12-N
**Low Noise Amplifier
 60-90GHz, NF:4.0 dB, Gain:45 dB**
Feature:

- Ultra Wide Band: 60-90 GHz
- Gain: 45dB Typ
- Noise Figure:4.0dB Typ
- Unconditional stability

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	60		90	GHz
Gain	40	45		dB
Noise Figure		4	5	dB
Output P1dB	6	9		dBm
Input VSWR		3		:1
Output VSWR		2		:1
DC Voltage		+5		V DC
DC power supply		220		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	/	mm

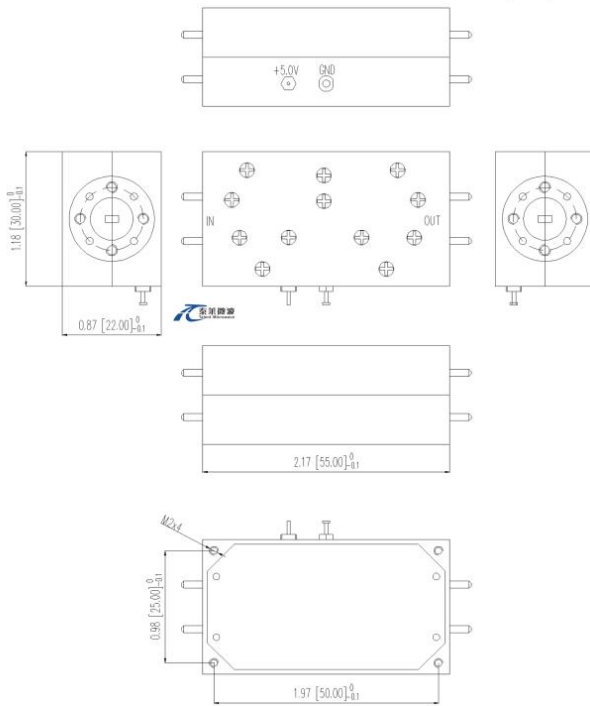
Absolute Maximum Ratings:

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	-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-060090-4540-12-N	Low Noise Amplifier,60-90GHz, Noise Figure:4.0dB, Gain:45dB,+5V DC,WR-12	Rev.1.1