

Low Noise Amplifier
17.3-22.4 GHz/1.5dB NF
34dB Gain / 8dBm P1dB
LNA-1722G-34-8-15
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LNA-1722G-34-8-15 is a low noise amplifier with a typical small signal gain of 34 dB and a nominal noise figure of 1.5 dB across the frequency range of 17.3 to 22.3 GHz. The DC power requirement for the amplifier is +12 V DC/150 mA. The input port configuration offers coax adapter structure with SMA female and output port is WR42.

Features:

- Frequency range: 17.3-22.3GHz
- Gain: 34dB Typ
- Noise Figure: 1.5dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Communication systems

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	17.3		22.3	GHz
Small Signal Gain		34		dB
Gain Flatness			±2	dB
Noise Figure		1.5	1.8	dB
Output P1dB		8		dBm
Output Psat		10		dBm
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		12	16	V DC
DC Supply Current		150		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
1/2 Input Connector 1/2	SMA Female/SMA Female	
Output Connector	WR42	
DC Power Supply Connector	SMA Female	
Size	37.6*45.7*33.04	mm

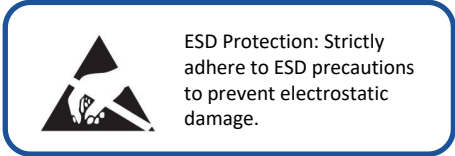
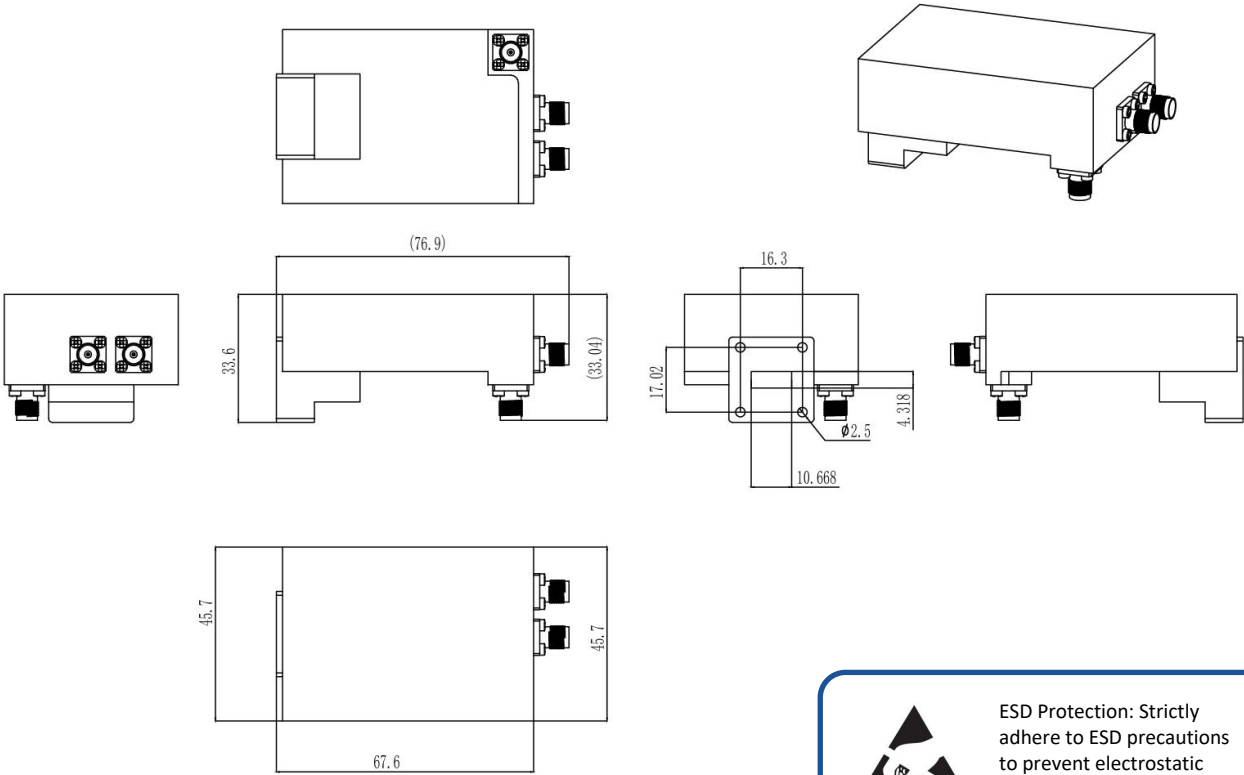
Absolute Maximum Ratings :

Parameter	Value
Supply Bias Voltage	+16 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm; Tolerance:±0.1mm



***Heat Sink Required During Operation

Environmental Conditions :

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	°C
Non-operating Temperature	-55		+85	°C
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			

Ordering Information:

Base Number	Description	Revision
LNA-1722G-34-8-15	Low Noise Amplifier, 17.3-22.3GHz, Noise Figure:1.5dB, Gain:34dB,P1dB:8dBm,+12V DC,Without Heatsink	Rev.1.0
LNA-1722G-34-8-15-HS	Low Noise Amplifier, 17.3-22.3GHz, Noise Figure:1.5dB, Gain:34dB,P1dB:8dBm,+12V DC,With Heatsink	Rev.1.0