

## Specifications of Low Noise Amplifier

### **Type 1 - Specifications of IF Band Low Noise Amplifiers**

1. Frequency Range : 10MHz – 1200MHz
2. Gain : 30 dB, min
3. Gain Flatness :  $\pm 1.5$  dB Max
4. Input / Output VSWR : 1.6:1 typical
5. Output power at 1dB compression: +10 dBm min
6. Noise Figure : 3 dB Max
7. DC Voltage : 12V or 15V  $\pm 10\%$
8. Input / Output Connector type : SMA Female
9. Impedance : 50 Ohm
10. Mechanical : 70X35X25 mm<sup>3</sup> (l x b x h), max.  
Mounting Provision should be provided
11. Quantity : in slabs of Quote in slabs of 1-10,11-20,  
21-30, 31-50, 51-100
12. Important Terms :
  - 12.1 Compliance matrix with the actual offered value of the parameters should be provided.
  - 12.2 It should be of off-the-shelf item.
  - 12.3 Data sheet / technical literature should be provided to consider the quote.
  - 12.4 Mechanical mounting drawing with mounting holes dimensions should be provided.
  - 12.5 MOQ/MOV, if any, to be specified

## Type 2 - Specifications of S-Band Low Noise Amplifiers

1. Frequency Range : 2 to 4 GHz
2. Gain : 30 dB min
3. Gain Flatness :  $\pm 2$  dB Max
4. Input / Output VSWR : 2:1 typical
5. Output power at 1dB compression: +10 dBm min
6. Noise Figure : 2.5 dB Max
7. DC Voltage : 12V or 15V  $\pm$  10%
8. Input / Output Connector type : SMA Female
9. Impedance : 50 Ohm
10. Mechanical : 65\*35\*25 mm<sup>3</sup> (l x b x h), max.  
Mounting Provision should be provided
11. Quantity : in slabs of Quote in slabs of 1-10, 11-20,  
21-30, 31-50
12. Important Terms :
  - 12.1 Compliance matrix with the actual offered value of the parameters should be provided.
  - 12.2 It should be off-the-shelf item.
  - 12.3 Data sheet / technical literature should be provided to consider the quote.
  - 12.4 Mechanical mounting drawing with mounting holes dimensions should be provided.
  - 12.5 MOQ/MOV, if any, to be specified

### **Type 3 - Specifications of X & Ku-Band Low Noise Amplifiers**

1. Frequency Range : 8-15 GHz
2. Gain : 30 dB min
3. Gain Flatness :  $\pm 2$  dB Max
4. Input / Output VSWR : 2:1 typical
5. Output power at 1dB compression: +10 dBm min
6. Noise Figure : 3dB Max
7. DC Voltage : 12V or 15V  $\pm$  10%
8. Input / Output Connector type : SMA Female
9. Impedance : 50 Ohm
10. Mechanical : 65\*35\*25 mm<sup>3</sup> (l x b x h), max.  
Mounting Provision should be provided
11. Quantity : in slabs of Quote in slabs of 1-10, 11-20,  
21-30, 31-50, 51-100
12. Important Terms :

12.1 Compliance matrix with the actual offered value of the parameters should be provided.

12.2 It should be of off-the-shelf item.

12.3 Data sheet / technical literature should be provided to consider the quote.

12.4 Mechanical mounting drawing with mounting holes dimensions should be provided.

12.5 MOQ/MOV, if any, to be specified

## Type 4 - Specifications of Ka-Band Low Noise Amplifiers

1. Frequency Range : 24-28 GHz
2. Gain : 30 dB min
3. Gain Flatness :  $\pm 2$  dB Max
4. Input / Output VSWR : 2:1 typical
5. Output power at 1dB compression: +10 dBm min
6. Noise Figure : 3dB Max
7. DC Voltage : 12V or 15V  $\pm$  10%
8. Input / Output Connector type : 2.92mm/2.9mm Female connector
9. Impedance : 50 Ohm
10. Mechanical : 60\*35\*25 mm<sup>3</sup> (l x b x h), max.  
Mounting Provision should be provided
11. Quantity : in slabs of Quote in slabs of 1-10, 11-20,  
21-30, 31-50
12. Important Terms :

12.1 Compliance matrix with the actual offered value of the parameters should be provided.

12.2 It should be of off-the-shelf item.

12.3 Data sheet / technical literature should be provided to consider the quote.

12.4 Mechanical mounting drawing with mounting holes dimensions should be provided.

12.5 MOQ/MOV, if any, to be specified