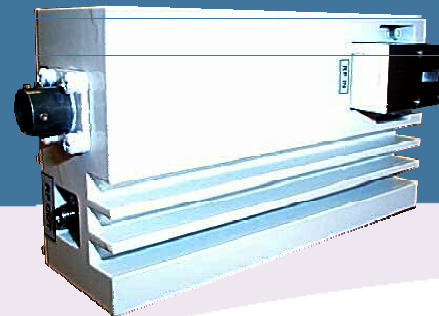


# Super Low Noise Temperature Ka-BAND LNA



Advantech's Ka-band Low Noise Amplifier (LNA) is a low noise, high dynamic range amplifier suitable for use in satellite earth station receiver applications where ultra low noise and high reliability are critical, as well as in other systems operating in the frequency ranges of 19.7 – 20.2 GHz, 18.3 – 20.2 GHz, 20.0 – 21.0 GHz. The LNA combines low noise with high linearity and wide band.

## FEATURES

- *Three frequency ranges:  
19.7 – 20.2 GHz,  
18.3 – 20.2 GHz  
20.0 – 21.0 GHz*
- *Built-in Regulator +11 to +24 VDC Operation*
- *Single or Redundant Operation*
- *Weatherproof Housing*
- *Two Year Warranty*

## OPTION

*Extreme Operating Temperature*

## ACCESSORIES

- *Transmit Reject filters*
- *Redundancy Kit*

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# Super Low Noise Temperature Ka-BAND LNA

<b>Electrical Specification</b>	
Frequency band	19.7 –20.2 GHz 18.3 – 20.2 GHz 20.0 – 21.0 GHz
Noise temperature @ 23 ° C	140°K maximum
Gain	55 dB minimum
Gain flatness	3 dB p.p. full bandwidth 0.5 dB p.p. 40 MHz
Gain variation over temperature	3 dB p.p. maximum
Gain stability @ constant ambient temp.	± 0.1dB / hour ± 0.2dB / 24 hours
Output power at 1dB of compression	+11 dBm Minimum
Spurious	-55 dBc Maximum
Max input power	-20 dBm
Input Return Loss	181 dB Typical
Output Return Loss	15 dB Typical
Operating voltage	11 to 24 VDC
<b>Mechanical Specifications</b>	
Input waveguide flange	WR-42
Output connector	SMA-F
Power connector	MS3112E8-3P
<b>Environmental Requirements</b>	
Operating temperature	-40°C to +60°C -50°C to +60°C (Option)
Humidity	Up to 100% Condensing

*Advantech reserves the right to change specifications without notice*

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