



Ka LNB (HX-KaLNB)



➤ Product features

The Ka-band LNB mainly includes a receiving channel, a low-noise amplifier, and a local oscillator circuit; it amplifies the low-noise signal of the Ka-band from the satellite and down-converts it to the S/L band. The product has the characteristics of high reliability and small size, and the product is used in satellite ground terminals.

Low noise; high frequency stability; small size; low phase noise; performance indicators have reached the international advanced level.

➤ Main indicator parameter

Parameter name	Typical value
Model	SP-k-43
Input frequency	18.2 GHz -21.2 GHz (any 1GHz optional)
Output frequency	0.95 GHz -1.95 GHz
Noise figure	1.5dB max.
Output 1dB compression point	5dBm max.
Gain	55dB typ. 50dB min.
Gain flatness	±1.5dB typ.
LO frequency stability	1ppm typ.
Phase noise	≤-65 dBc/Hz@ 100 Hz;



Parameter name	Typical value
Model	SP-k-43
	≤ -75 dBc/Hz@ 1 kHz;
	≤ -85 dBc/Hz@ 10 kHz;
	≤ -95 dBc/Hz@ 100 kHz;
Input interface	WR-42G
Output interface	F(F)-75/N(F)-50
Input standing wave	2.5 typ.
Output standing wave	2.5 typ.
Powered by	12~24V
Volume	113.6mm×70 mm×39mm
Weight	0.35Kg
Operating temperature	-40°C~60°C

