Product Specification Summary Low-Noise Block Downconverter For Ka-band Satcom Applications

This high-performance model accepts the Ka receive band of 20.2 to 21.1 GHz and translates it to an L-band output between 1 and 2 GHz. The front-end LNA has a noise figure of 1.4 dB and a filter integrated before the even-harmonic mixer provides high image and LO rejection at the input port.

Voltage-variable attenuators are located in the RF and IF amplification paths to ensure optimum gain and dynamic range. A separate port allows use of an external 9.6-GHz LO signal, or an optional internal oscillator can supply a low-phase-noise LO signal phased-locked to a reference signal multiplexed on the L-band output port (along with DC power if desired).

BUC/BDC Series

Key features

- Designed for demanding Ka-band satellite communications transceivers
- Accepts 20.2 to 21.1 GHz at waveguide input and outputs 1 to 2 GHz via SMA output
- Low noise figure
- VVAs in RF and IF amplification paths ensure high gain and dynamic range

Narda's Low-Noise Block Downconverter Employs Proprietary Construction Techniques





Input frequency (GHz)	20.2 to 21.2
Output frequency (GHz)	1 to 2
Output spectrum	Non-inverting
Input RF waveguide	WR-42
Output IF connector	SMA
RF gain range(dB)	20 to 40
IF gain range (dB)	-24 to -12
Noise temperature (°K, nominal)	110
LO frequency (GHz)	9.6

Please consult the factory for detailed product specifications.



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