

LNBF Series

Low Noise Block Converter Feeds



○ Features & Benefits

- Low Noise Figure
- Low Phase Noise
- Rectangular and "D" Shaped Antenna Mounting Models

The 6455-R and 6455 LNBF's are dual low noise block downconverters designed to convert DBS band signals into the L-band IF frequency range of 950-1450 MHz. The LNBF receives both right (RHCP) and left (LHCP) hand circularly polarized signals and provides two independent outputs, which can provide either polarity. The desired polarity is selected by providing either 13V or 18V to the output port. In a dual trunk MDU distribution system, the LNBF is powered so that one output provides the LHCP and the other output provides the RHCP. This allows delivery of both polarities throughout the distribution system. The 6455-R LNBF has a rectangular shaped channel, which mounts seamlessly with the 6459-R antenna. The 6455 LNBF has a 'D' shaped channel for antennas providing this style of mounting.

The 6486 LNBF-FSS-S is a 'stacked' low noise block downconverter designed to convert KU-band signals to the L-band frequency ranges of 950-1450 and 1525-2025 MHz. The 6486 LNBF receives both vertical and horizontal linear polarized signals and provides one 'stacked' output.

○ Specifications

	#6455/6455-R	#6486
Input Frequency GHz:	12.2 to 12.7	11.7 to 12.2
Output Frequency MHz:	950-1450 N/A	950-1450 1525-2025
Local Oscillator Freq.GHz:	11.25	11.25
Noise Figure dB:	1.1 max	0.8 max
Conversion Gain dB:	50 to 62	50 to 62
RF Flatness (over 500 MHz) p-p:	5	5 ,1 dB p-p max./25 MHz
RF Flatness (over any 25 MHz) dB:	0.5	-
Local Oscillator Uncertainty MHz:	±5	±2
Cross Polarization Discrimination dB:	25	-
Output VSWR (75Ω):	2.0	2.0
Temperature Range °C:	-35 to +65	-34 to 52
Local Oscillator Phase Noise dBc/Hz		
1 KHz offset:	-50	-50
10 KHz offset:	-70	-80
100 KHz offset:	-90	-105
1 MHz offset:	-110	-120
Current Consumption mA:	200	200
Supply Voltage	10.5 to 14.0, (13.0 nominal)	-
	15.5 to 19.0, (18.0 nominal)	-
F/D Ratio	0.59	-

○ Ordering Information

Model	Stock No.	Description
LNBF-Dual	6455	Dual Low Noise Block Converter Feed D Channel Mounting
LNBF-DualR	6455 R	Dual Low Noise Block Converter Feed Rectangular Channel Mounting
LNBF-FSS-S	6486	Stacked Linear LNB 11.7-12.2 GHz

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