

iDIRECT LNB Series
Universal-Ku Band PLL LNB
• Auto 22 kHz Switch (P/N: E0001110-0001)

iDirect's universal PLL LNBs cover all three Ku-band downlink sub-bands (10.70-12.75 GHz) by switching across two L-band ranges through automatic 22 kHz tone control by remote or via a mechanical switch selected by the user. Highly stable, low noise, and an excellent choice for Evolution or Velocity networks.



Electrical Specifications

Input Frequency Range	Low Band: 10.70 to 11.70 GHzHigh Band: 11.70 to 12.75 GHz
Output Frequency Range	Low Band: 950 to 1,950 MHzHigh Band: 1,100 to 2,150 MHz
Local Frequency	Low Band: 9.75 GHzHigh Band: 10.60 GHz
Conversion Gain	48 dBm min., 62 dB max.
Noise Figure@ 25°C	0.8 dB typ., 1.0 dB max.
Local Stability	+/- 35 ppm max. (initial setting error and across temperature range) Recommended for Evolution carriers down to a minimum of 1 Msps.
Image Rejection	40 dB min.
Input V.S.W.R.	2.5 : 1 typ.
Output V.S.W.R.	2.3 : 1 max.
DC Power Requirement	
[Input Port]	IF Output Connector; DC Supply combined with IF Signal
[Voltage Range]	+12 to +24 VDC
[Current Drain]	145 mA typ., 170 mA max.

Frequency Band Selection

	22 kHz Tone Control (DiSEqC-compatible):
[Select Type]	Low Band: 0.0 to 0.2 Vp-p High Band: 0.4 to 0.8 Vp-p
[Input Port]	IF Output Connector; DC Supply combined with IF Signal
[Wave Form]	Square-wave
[Frequency]	22 +/- 4 kHz
[Duty Cycle]	30 to 70%

These products are manufactured in Japan and carry a 3-year warranty.

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DiSEqC Universal-Ku Band PLL LNB (P/N: E0001110-0001)

Mechanical Specifications

Input Interface	Waveguide, WR-75 (with Groove)
Output Interface	F-Type, Female
Dimension & Housing (without Interface Connector)	DiSEqC: 82.2 (L) x 40 (W) x 40 (H) mm 3.24" (L) x 1.57" (W) x 1.57" (H)
Weight	210 g (0.46 lbs)

Environmental Specifications

Temperature Range (ambient)	-40 to +60°C (operating) -40 to +80°C (storage)
Humidity	0 to 100%
Altitude	15,000 feet max.
Compliance	CE, FCC, RoHS

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Mechanical Drawing

DiSEqC 22 kHz:

