



- Downconversion of Ku-Band DVB-S signals of 2 polarities (4 Quadrants) into Sat-IF and stacking into one combined RF signal in the frequency range from 950-5450 MHz
- Designed to feed directly to the FibreIRS ODU32 or a professional headend.

Technical Specifications

LNB type		Mini Univesal-Wholeband LNB
Input frequency range	(GHz)	10.70-12.75 GHz
Output frequency range	(MHz)	950-5450
Output impedance		50
Noise figure (typical at 25 °C)	(dB)	0.7
Noise figure (max. at 25 °C)	(dB)	< 1.1
Noise figure (typical -30 to +60 °C)	(dB)	0.9
Noise figure (max-30 to +60 °C)	(dB)	< 1.3
Return Loss	(dB)	> 9
Conversion gain (typical at 25 °C)	(dB)	63
Gain variation (-30 to +60 °C)	(dB)	+2
Gain flatness (0.95 to 5.45 GHz)	(dB)	6
Gain ripple (per 27 MHz bandwidth segment)	(dB)	< 1
L.O. Frequency vertical	(GHz)	9.75
L.O Frequency horizontal	(GHz)	7.30



L.O. Phase noise (Offset frequency 1 kHz)	(dBc/Hz)	55
L.O. Phase noise (Offset frequency 10 kHz)	dBc/Hz	80
L.O. Phase noise (Offset frequency 100 kHz)	dBc/Hz	100
L.O. Stability, initial setting	MHz	+/- 0.5
L.O. Temperature drift (-40 C to +60 °C)	MHz	+/- 2
L.O. Aging and total drift (10 years)	MHz	+/- 4
Image rejection (in.)	(dB)	40
Cross polar isolation (typ)	(dB)	30
Cross polar isolation (min)	(dB)	25
Spurious output– in band	(dB)	30
Supply voltage, nominal	VDC	6
Supply voltage, maximum survival voltage	VDC	7
Current consumption	mA	<330
Climatic specification– Operation	(°C)	-30 to +60
Climatic specification– Storage	(°C)	-40 to +70