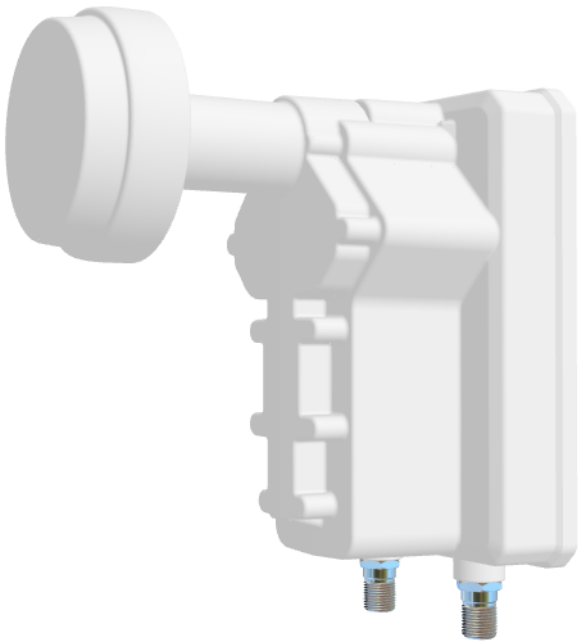


Click object to rotate

Ka

KaKu Co-locate Linear 23mm LNB with one KaKu switchable output and one Ka output

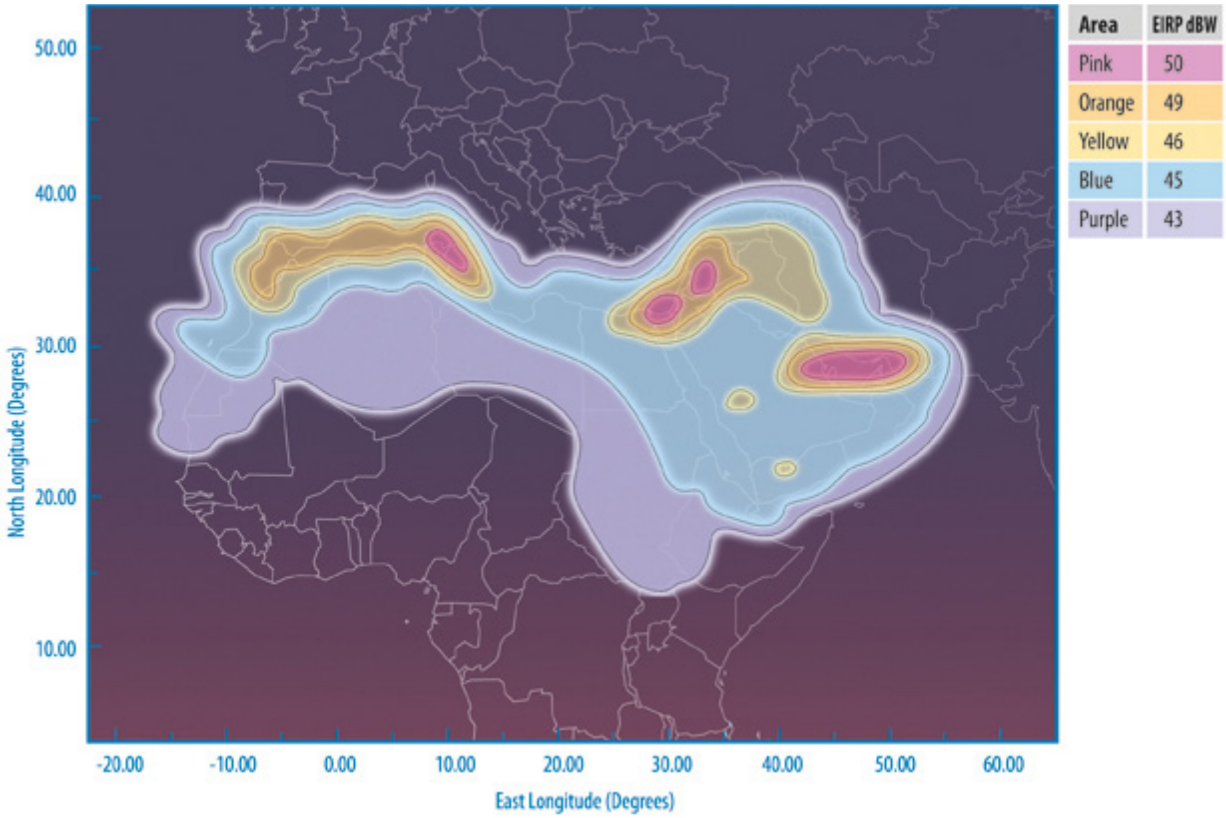
IDLK-SINL20-KAKUO-OPP

Item: 5104

This industry-first and unique dual band Ka/Ku LNB is designed to receive Ku (10.7 to 12.75 GHz) and Ka (21.4 to 22.0 GHz) TV, radio and data channels with linear polarity (Horizontal/Vertical) from the same orbital position at 25.5° East. It can be used with standard offset dish antennas of 60 to 90cm diameter and F/D of 0.6.

The LNB has two ports – one supporting either Ku or Ka and the second port fixed to deliver Ka-only. The selection between Ku and Ka band is based Tone Burst or DiSEqC 1.0 commands. The product is supplied with a 40mm ring adapter to ensure compatibility with the majority of already installed legacy dish antennas.

Eutelsat 25.5E Ka/Ku coverage over the MENA region



Technical data

Mechanical

F/D	~0.6
External feed holder diameter	23mm (40 mm ring adapter supplied accessory)
Number of F connectors	2 (one for Ka band only, one for Ka/Ku bands)
Adjustment of polarisation	by rotating the LNB feedhorn (+/-45°)
Nominal antenna size	60cm to 90cm
Polarisation	Dual linear for Ka band and Ku band
Output connector	F type female (EN60169)

RF and Electrical

<u>Ku band:</u>	
Frequency range	Low Band: 10.70 ~ 11.70 GHz
	High Band: 11.70 ~ 12.75 GHz
LOs:	9.75 GHz (Low band) & 10.6 GHz (High band)
LOs stability	(25°C) +/- 1 MHz
	(-30°C ~ 60°C) +/- 3 MHz

Phase Noise	(1 KHz offset)	-50 dBc/Hz
	(10 KHz offset)	-75 dBc/Hz
	(100 KHz offset)	-95 dBc/Hz
	(1 MHz offset)	-105 dBc/Hz
Noise figure	1.2 dB typ.	
Gain	50 - 60 dB	
Gain Ripple (over full band)	+/- 5 dB	
Output power at 1dB gain compression	0 dBm min	
Band selection	0/22 KHz +/- 4 kHz	
Polarisation selection	13 V vertical /18 V horizontal	
Cross polarisation isolation	18dB min.	

Ka band:

Frequency range	21.4 to 22.0GHz	
IF frequency range	950 to 2150MHz	
LO	20.25 GHz	
LO stability	(25°C)	+/- 1 MHz
	(-30°C ~60°C)	+/- 3 MHz
LO phase noise	(1 KHz offset)	-50 dBc/Hz
	(10 KHz offset)	-75 dBc/Hz
	(100 KHz offset)	-95 dBc/Hz
	(1 MHz offset)	-105 dBc/Hz
Noise figure	1.5 dB typ, 1.7dB max.	
Gain	50 - 60 dB	
Output power at 1dB gain compression	0 dBm min	
LO selection	none (fixed to 20.25 GHz)	
Polarisation selection	13V (vertical) / 18V (horizontal)	
Cross polarisation isolation	20 dB min.	

Polarisation and band selections:

Receiver Commands	LNB Band selection
Tone Burst A or DiSEqC A	Ku band (Low & High)
Tone Burst B or DiSEqC B	Ka
DiSEqC C	Ku band (Low & High)
DiSEqC D	Ka

- 18/13V command is used to select between:

- Vertical and Horizontal polarization for Ku and Ka band

- 22KHz is used to select between:

- 10.7 to 11.7 GHz in Ku band (ie 9.75GHz LO) – Low band

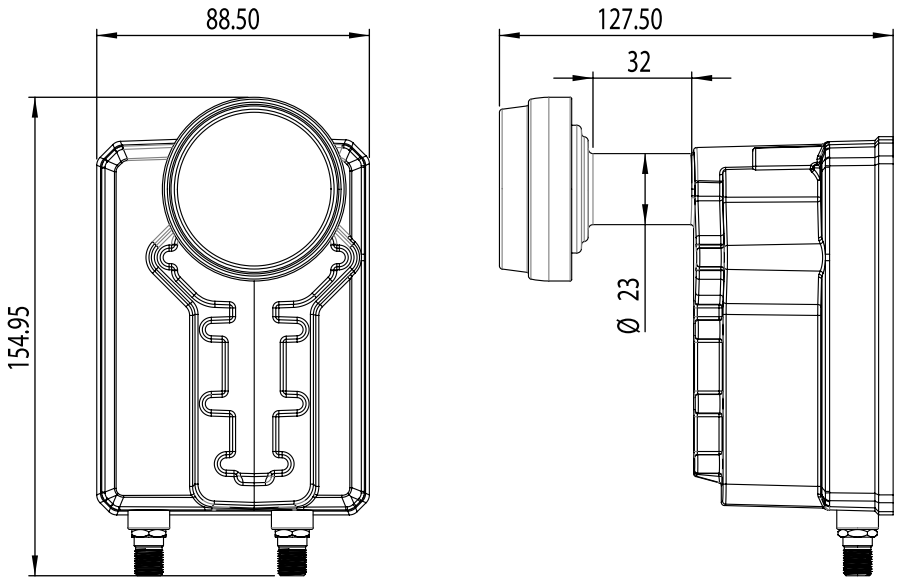
- 11.7 to 12.75 GHz in Ku band (ie 10.6GHz LO) – High band

- In Ka band, the LO is fixed whatever is the 0/22 KHz signal (ie 20.25 GHz LO)

• Current	180 mA max

Environment

Temparture range	-30 to +60 °C operating
	-50 to 75 °C storage



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