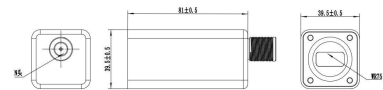


Ku-Band 10.70–12.75 GHz LNB with WR-75 Input

Satellite downconverter to 950–2150 MHz IF, ≥60 dB conversion gain, ≤0.8 dB noise figure and N female IF/DC interface.



Electrical specifications

Parameter	Value	Unit
RF input frequency	10.70–12.75	GHz
IF output frequency	950–2150	MHz
Internal LO frequency	9.75 / 10.60	GHz
LO selection voltage	13 / 18	V
Internal reference frequency	10	MHz
Downconversion gain	≥60 (Minimum: 60 dB.)	dB
Gain flatness over 500 MHz	±2.0 (Bandwidth: 500 MHz.)	dB
Gain flatness over 40 MHz	±0.6 (Bandwidth: 40 MHz.)	dB
Gain variation with temperature	±2	dB
Noise figure	≤0.8 (Maximum: 0.8 dB.)	dB
Output P1dB	≥10 (Minimum: 10 dBm.)	dBm
Output spurious	≤−55 (Maximum: -55 dBc.)	dBc
Supply voltage	10–24	VDC
Power consumption	2.5 (Typical: 2.5 W.)	W

Environmental limits

Parameter	Value	Unit
Operating temperature	−40–+60	°C
Relative humidity	≤100 (Maximum: 100 % RH.)	% RH
Ingress protection stated in source	IP66 (IP66 is stated in the source; completed certification is not established.)	-

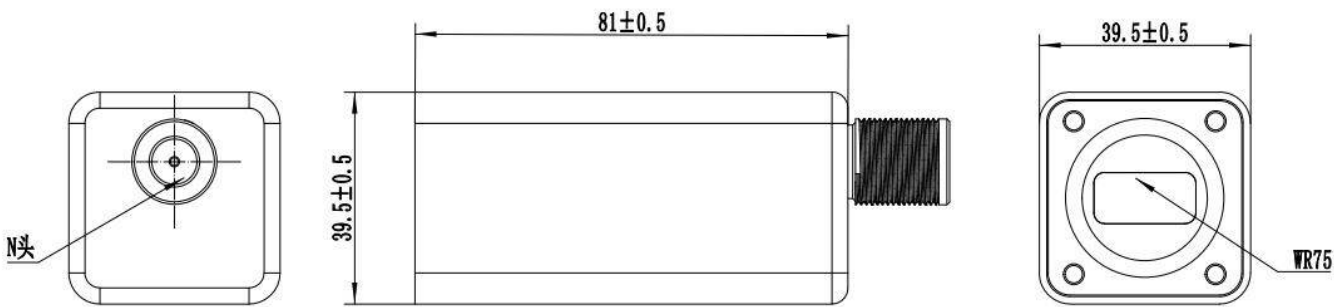
Interfaces and contacts

Parameter	Value	Unit
Power interface	IF (DC supply through the IF output connector.)	-
RF input connector	WR-75 waveguide	-
IF output connector	N female	-

Mechanical specifications

Parameter	Value	Unit
Outline dimensions	81 × 39.5 × 39.5	mm
Dimensional tolerance	±0.5	mm
Weight	≤0.3 (Maximum: 0.3 kg.)	kg

Mechanical Outline



All dimensions are in mm [in].

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.