RADITEK

SATCOM
LNB Ka-Band

Low Noise Block Down Converter

Ka-Band, 30.499-30.501GHz

WR-28, N female Connector

External Reference

RoHS COMPLIANT

Order Examples: RLNB-Ka-(30.499-30.501) WR28-Nf-ER-w17
Description: *(Low Noise Block Down Converter, Ka (30.499-30.501GHz), WR-28, N female connectors, External Reference)*

Specifications	
Input Frequency	**30.5+/-0.001GHz**
Output Frequency	**1000+/-1MHz**
Input Return Loss	VSWR 2.0:1
Output Return Loss	VSWR 2.0:1
Local Frequency	29.5 GHz
Output 1 dB compression point	+ 5 dBm minimum
3rd Order Intercept point at output	+ 15 dBm minimum
Gain	64 dB (typ) 68 dB (max) 60dB (min)
Gain Flatness	+/-0.5dB @ 40MHz
Gain Flatness (Ripple)	+/-0.5dB @40MHz
Gain Variation Over Temperature	+/-1.5dB p-p over full temperature range
Noise Temperature	5.50 max @ 23°C
Image rejection	40 dBc minimum
Local leakage at waveguide input	-50dBm maximum
In band Spurious	-60dBc @ 0dBm output
Out band Spurious(@ No signal)	-50dBm minimum
Stabilization & Start up Time	2 Minute Maximum.
Local Frequency Stability	External Ref.(0dBm +/-3dB)
DC Input Voltage / Current	+12 ~ +24VDC / 500mA
Input Connector	WR-28
Output Connector	N-Type(Female)
Operating Temp.	-10°C ~ +60°C
Phase Noise	-58 dBc/Hz @ 100Hz
	-68 dBc/Hz @ 1kHz
	-78 dBc/Hz @ 10kHz
	-90dBc/Hz @ 100KHz

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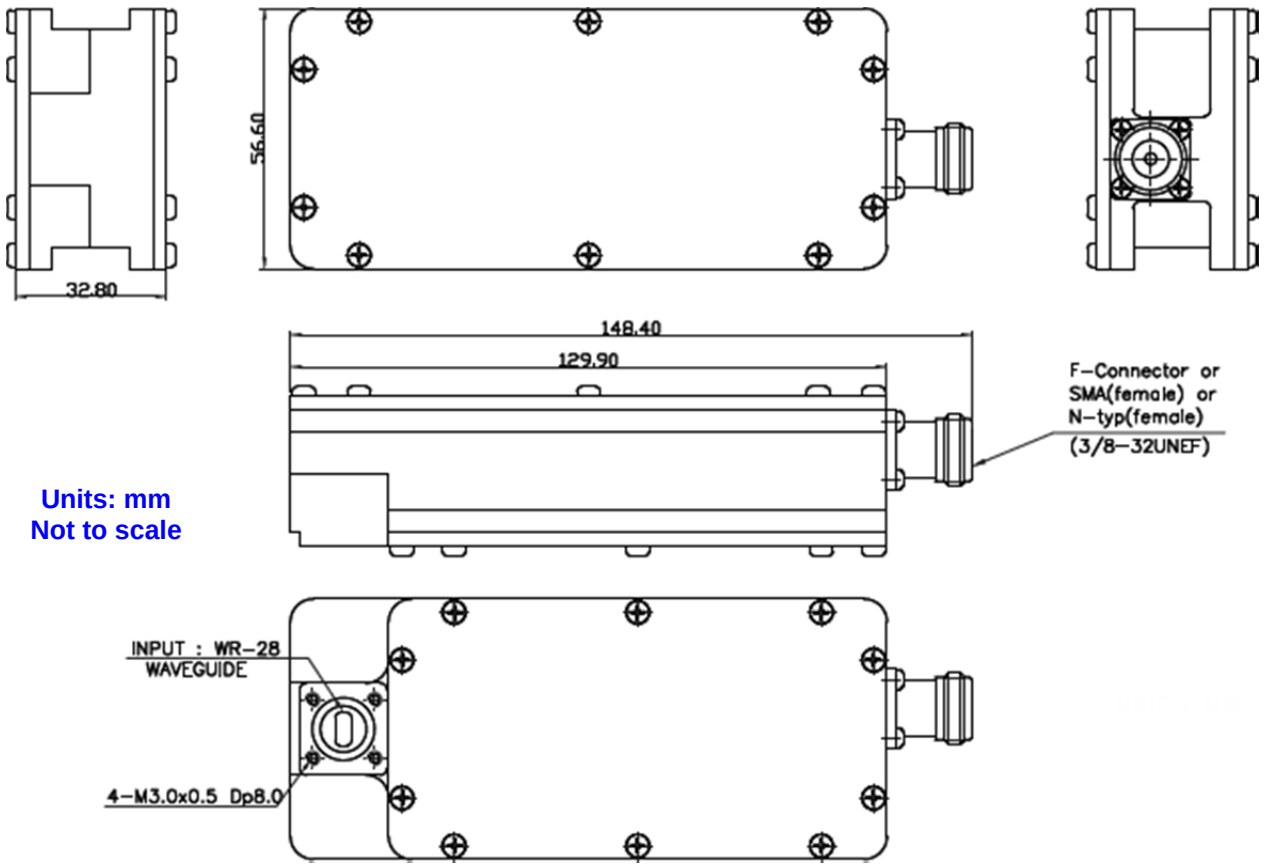
Low Noise Block Down Converter, Ka Band
WR-28, N Female Connector, External Reference



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