RADITEK

SATCOM
LNB Ka-Band

Low Noise Block Down Converter

Ka-Band, 20.2-21.2GHz

WR-42, N female Connector

External Reference

RoHS COMPLIANT

Preliminary Picture with Isolator

Order Examples: **RLNB-Ka-20.2-21.2-WR42-Nf-ER-w17**
Description: *(Low Noise Block Down Converter, Ka (20.2-21.2GHz), WR-42, N female connectors, External Reference)*

Parameter	Specification	
Input Frequency	20.2 ~ 21.2GHz	
Output Frequency	950 ~ 1950MHz	
Input Return Loss /(VSWR)	2.0 : 1	1.3 : 1 W/G Isolator
Output Return Loss / (VSWR)	2.0 : 1	
Local Frequency	19.25GHz	
Output 1 dB compression point	+ 10 dBm minimum	
3rd Order Intercept point at output	+ 20 dBm minimum	
Gain	60dB (min) 65dB (typ), 70dB (max)	
Gain Flatness	+/-2.0dB @ 1000MHz	
Gain Variation @24 hours	+/-0.25dB max. @ Room Temp	
Gain Variation Over Temperature(-20~+60)	+/-2.0dB over full temperature range	
Stabilization & Start up Time	5 Minute Maximum.	
Noise Temperature	1.6dB max @ 23℃	
Image rejection	45 dBc minimum	
In Band Spurious	-60dBc @ Pout=0dBm Harmonic	
No Damage	-30dBm	
Local Frequency Stability	External Ref.(10MHz) -5 ~+5dBm	
DC Input Voltage	+9 ~ +15VDC	
Current	370mA	
Storage temperature	-40 to +85ºC	
Operating temperature	-20 to +60ºC	
Relative humidity	up to 100 %	
Operating altitude	up to 4500 m	
Input Connector	WR 42 grooved (PBR 220)	
Output Connector	Type N (F) 50 Ω	
Dimensions	5.5x2.3x1.4”(140X58X36mm) Inc.W/G Isolator	
Phase Noise	-62 dBc/Hz @ 100Hz	
	-72 dBc/Hz @ 1kHz	
	-82 dBc/Hz @ 10kHz	
	-95dBc/Hz @ 100KHz	

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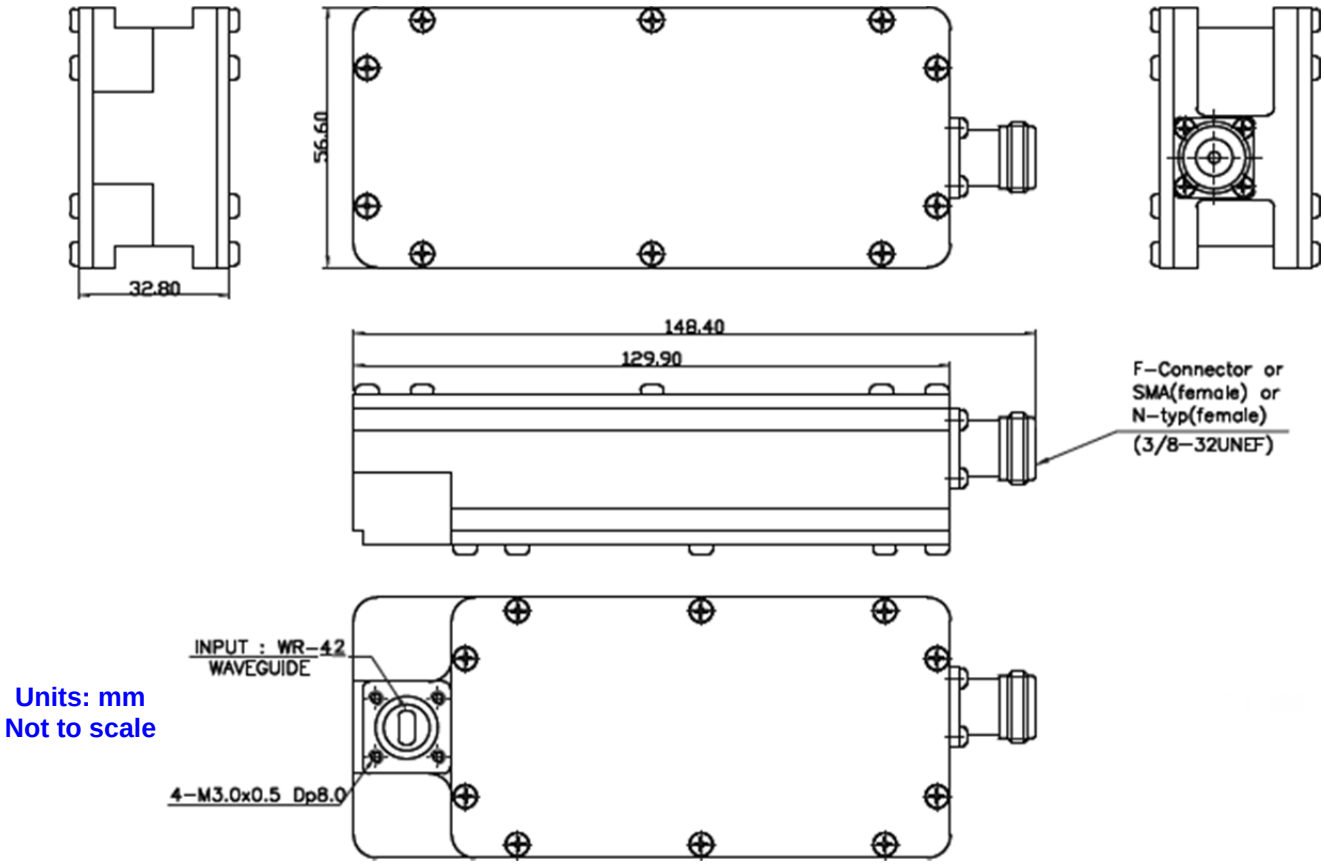
Low Noise Block Down Converter, Ka Band

WR-28, N Female Connector, External Reference



Units: mm
Not to scale

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