

9000X4ECN

9000X4 Ka-Band Quad Band EXT REF LNB

Frequency: EC: 17.20 - 21.20 GHz

Isolator: No

Output Connector: N: 50 Ohm



KEY SPECIFICATIONS

Band	Ka-Band
External Ref Freq	10 MHz (sine-wave), - 5 to +5 dBm
Input Frequency Band 1	17.20 - 18.20 GHz
Input Frequency Band 2	18.20 - 19.20 GHz
Input Frequency Band 3	19.20 - 20.20 GHz
Input Frequency Band 4	20.20 - 21.20 GHz
LO Frequency 1	16.25 GHz
LO Frequency 2	17.25 GHz
LO Frequency 3	18.25 GHz
LO Frequency 4	19.25 GHz
LO Stability	Ext Ref
LO Type	EXT
Noise Figure Max	2.0 dB
Noise Figure Typ	1.5 dB
Number Of Onboard Los	Quad-Band
Output Frequency Band 1	950 - 1950 MHz
Output Frequency Band 2	950 - 1950 MHz
Output Frequency Band 3	950 - 1950 MHz
Output Frequency Band 4	950 - 1950 MHz

RF SPECIFICATIONS

Control Signal 1	13V / No Tone
Control Signal 2	13V / 22kHz Tone
Control Signal 3	18V / No Tone
Control Signal 4	18V / 22kHz Tone
Conversion Gain Max	65 dB
Conversion Gain Min	55 dB
Conversion Gain Typ	60 dB

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Gain Flatness (over Full Band)	≤ 4 dB p-p max.
Input VSWR	3.5 : 1 max.
Output P1db	+ 10 dBm min.
Output VSWR	2.0 : 1 max.
Phase Noise 100khz Offset Max	Depends on External Reference

ELECTRICAL SPECIFICATIONS

Current Consumption	350 mA
Power Requirements	+12 to +24V DC

INTERFACE SPECIFICATIONS

IF Connector	N-Connector
Isolator	No Isolator
RF Input Connector	WR-42 waveguide grooved

ENVIRONMENTAL SPECIFICATIONS

IP Rating	IP 67
Temperature Operational	-40°C to +60°C
Temperature Storage	-40 to +80°C

PHYSICAL SPECIFICATIONS

Product Height	39 mm
Product Length	134 mm
Product Weight	0.56 kg
Product Width	67 mm

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in the Republic of Korea	Richmond, BC, Canada	EAR99	145 x 95 x 65 mm 0.55 kg

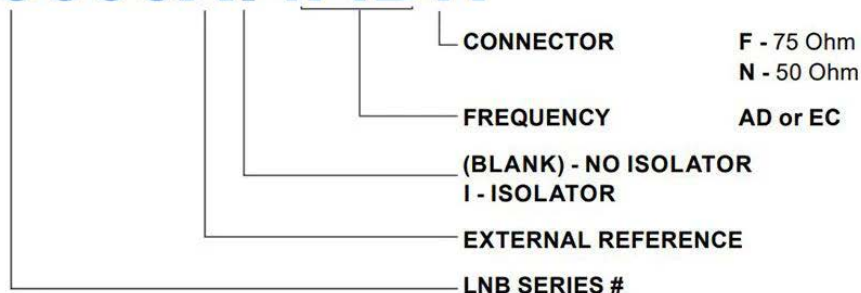
HOW TO ORDER



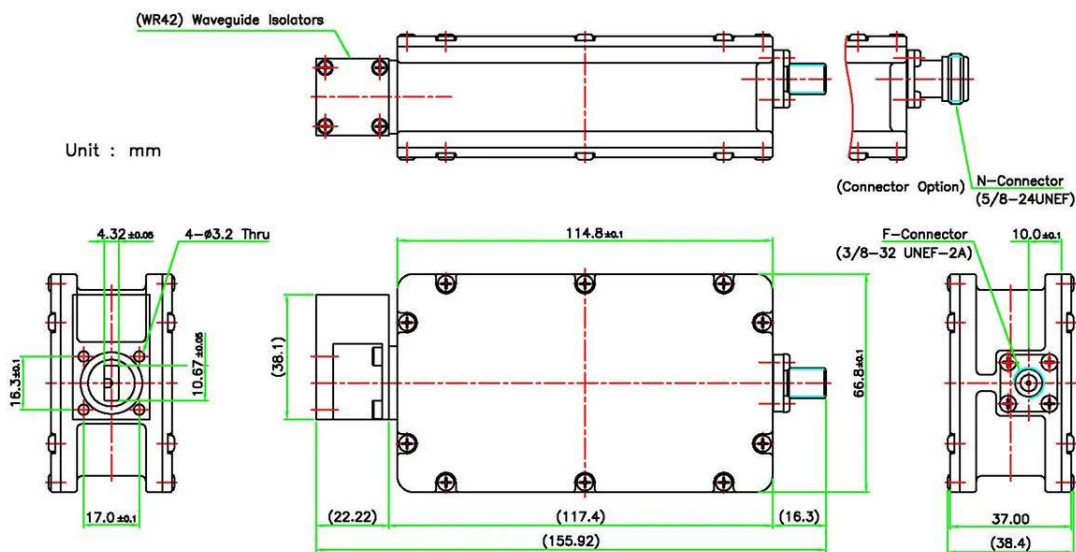
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MECHANICAL DIAGRAMS



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