



9000SHDBF

9000 Ka-Simultaneous Dual Band PLL LNB

Frequency Bands: 18.2 - 19.2 GHz & 19.2 - 20.2 GHz

W/G Isolator: No

Power Connector: F Connector



KEY SPECIFICATIONS

Band	Ka-Band
Input Frequency Band 1	18.20 - 19.20 GHz
Input Frequency Band 2	19.20 - 20.20 GHz
LO Frequency 1	17.25 GHz
LO Frequency 2	18.25 GHz
LO Stability	±10 kHz
Noise Figure Typ	1.8 dB
Output Frequency Band 1	950 - 1950 MHz
W/g Isolator	No

RF SPECIFICATIONS

Conversion Gain Max	65 dB
Conversion Gain Min	55dB
Conversion Gain Typ	60 dB
Gain Flatness (over Any 36mhz)	1 dB p-p
Gain Flatness (over Full Band)	4 dB p-p
Image Rejection	40 dBc min.
Input VSWR	2.5 : 1 max.
Output P1db	5 dBm min.
Output VSWR	2.2 : 1 max.
Phase Noise 100hz Offset Max	-125 dBc/Hz max.
Phase Noise 100khz Offset Max	-95 dBc/Hz





Innovative Communication Solutions

Phase Noise 10khz Offset Max -80 dBc/Hz

Phase Noise 1khz Offset Max -70 dBc/Hz

ELECTRICAL SPECIFICATIONS

IF Connector F Connector

Power Requirements +12 to +24V DC

INTERFACE SPECIFICATIONS

RF Input Connector WR 42

ENVIRONMENTAL SPECIFICATIONS

IP Rating IP 67

Temperature Operational -40 to +60°C

PHYSICAL SPECIFICATIONS

Product Dimensions (LxWxH) 38.4 x 78.4 x 159.2 mm

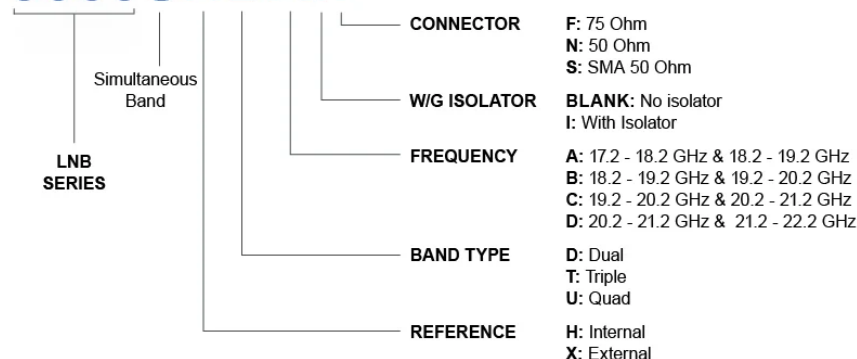
Product Weight 750 g

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in Korea	Korea	EAR99	160 x 80 x 40 mm 750 g

HOW TO ORDER

9000SHDAIF



MECHANICAL DIAGRAMS





Technical drawing of the WR42 Waveguide Isolators assembly, showing multiple views and dimensions:

- Top View:** Shows the overall dimensions of the assembly, including a total length of 134.4 and a width of 78.4. It also indicates the location of the SMA-Connector (1/4-36 UNS-2A) and the N-Connector (5/8-24 UNEF).
- Front View:** Shows the front of the assembly with dimensions 17.0 ±0.1 and 4.32 ±0.05. It also indicates the location of the F-Connector (3/8-32 UNEF).
- Side View:** Shows the side of the assembly with dimensions 22.2 and 137.0. It also indicates the location of the N-Connector (5/8-24 UNEF).
- Bottom View:** Shows the bottom of the assembly with dimensions 175.2 and 37.0. It also indicates the location of the N-Connector (5/8-24 UNEF).
- Detail Views:**
 - Waveguide Isolators (WR42):** Shows the internal components and dimensions, including a length of 134.4 and a width of 78.4.
 - Connector Option:** Shows the N-Connector (5/8-24 UNEF) and the F-Connector (3/8-32 UNEF) with dimensions 16.0 and 17.0 ±0.1.



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