



9000SHDAS

9000 Ka-Simultaneous Dual Band PLL LNB

Frequency Bands: 17.2 - 18.0 GHz & 18.2 - 19.2 GHz

W/G Isolator: No

Power Connector: SMA Connector



KEY SPECIFICATIONS

Band	Ka-Band
Input Frequency Band 1	17.20 - 18.20 GHz
Input Frequency Band 2	18.20 - 19.20 GHz
LO Frequency 1	16.25 GHz
LO Frequency 2	17.25 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





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Phase Noise 10khz Offset Max	-80 dBc/Hz
Phase Noise 1khz Offset Max	-70 dBc/Hz

ELECTRICAL SPECIFICATIONS

IF Connector	SMA Connector
Power Requirements	+12 to +24V DC

INTERFACE SPECIFICATIONS

RF Input Connector	WR 42
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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

LNB SERIES	CONNECTOR	F: 75 Ohm N: 50 Ohm S: SMA 50 Ohm
Simultaneous Band	W/G ISOLATOR	BLANK: No isolator I: With Isolator
	FREQUENCY	A: 17.2 - 18.2 GHz & 18.2 - 19.2 GHz B: 18.2 - 19.2 GHz & 19.2 - 20.2 GHz C: 19.2 - 20.2 GHz & 20.2 - 21.2 GHz D: 20.2 - 21.2 GHz & 21.2 - 22.2 GHz
	BAND TYPE	D: Dual T: Triple U: Quad
	REFERENCE	H: Internal X: External

MECHANICAL DIAGRAMS





Technical drawing of the WR42 Waveguide Isolators, showing dimensions and connector options.

Dimensions:

- Top View: 134.4 (Overall Width), 137.0 (Inner Width), 175.2 (Overall Length), 78.4 (Height), 16.0 (Flange Thickness), 22.2 (Mounting Flange Thickness).
- Side View: 4.32 ±0.05 (Flange Thickness), 17.0 ±0.1 (Mounting Flange Thickness), 38.1 (Mounting Flange Height).
- Front View: 37.0 (Overall Width), 38.4 (Inner Width).

Connector Options:

- SMA-Connector (1/4-36 UNS-2A)
- N-Connector (5/8-24UNEF)
- F-Connector (3/8-32UNEF)

Other Features:

- 4-Ø3.2 Thru (Mounting Holes)
- BAND 1, BAND 2 (Frequency Bands)



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