

9000SHUBS

9000 Ka-Simultaneous Quad Band PLL LNB

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

W/G Isolator: No

Output Connector: SMA Connector



KEY SPECIFICATIONS

Band	Ka-Band
Input Frequency Band 1	18.20 - 19.20 GHz
Input Frequency Band 2	19.20 - 20.20 GHz
Input Frequency Band 3	20.20 - 21.20 GHz
Input Frequency Band 4	21.20 - 22.20 GHz
LO Frequency 1	17.25 GHz
LO Frequency 2	18.25 GHz
LO Frequency 3	19.25 GHz
LO Frequency 4	20.25 GHz
LO Stability	±10 kHz
Noise Figure Typ	2.3 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	3.5 : 1 max.



Output P1db	5 dBm min.
Output VSWR	2.2 : 1 max.
Phase Noise 100khz Offset Max	-95 dBc/Hz
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 141.0 x 188.2 mm
Product Weight	1000 g

LOGISTICS SPECIFICATIONS

HS Code	Country of Origin	Ex Works	ECCN Number	Unit Package
8517690000	Made in Korea	Korea	EAR99	190 x 145 x 40 mm 1400 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 assembly, showing dimensions and component callouts.

Top View Dimensions:

- Overall Width: 166.0
- Overall Height: 141.0
- Left Flange Width: 4.32 ±0.05
- Right Flange Width: 37.0 (38.4)
- Central Section Width: 168.6 (209.3)
- Left Flange Thickness: 16.3 ±0.1
- Central Section Thickness: 10.67 ±0.05
- Right Flange Thickness: 17.0 ±0.1
- Bottom Flange Width: 22.2
- Bottom Flange Thickness: 18.5

Front View Dimensions:

- Overall Width: 166.0
- Overall Height: 141.0
- Left Flange Width: 4.32 ±0.05
- Right Flange Width: 37.0 (38.4)
- Central Section Width: 168.6 (209.3)
- Left Flange Thickness: 16.3 ±0.1
- Central Section Thickness: 10.67 ±0.05
- Right Flange Thickness: 17.0 ±0.1
- Bottom Flange Width: 22.2
- Bottom Flange Thickness: 18.5

Side View Dimensions:

- Overall Width: 166.0
- Overall Height: 141.0
- Left Flange Width: 4.32 ±0.05
- Right Flange Width: 37.0 (38.4)
- Central Section Width: 168.6 (209.3)
- Left Flange Thickness: 16.3 ±0.1
- Central Section Thickness: 10.67 ±0.05
- Right Flange Thickness: 17.0 ±0.1
- Bottom Flange Width: 22.2
- Bottom Flange Thickness: 18.5

Callouts:

- (WR42) Waveguide Isolators
- Connector Option (F-Con*(3/8-32 UNEF)) (SMA-Con*(1/4-36 UNS-2A))
- N-Connector (5/8-24 UNEF)
- 4-#3.2 Thru



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