Ka-Band LNA

LNA (Low Noise Amplifier) Ka-Band

All LNA (Low Noise Amplifier) units are individually hand tuned for the very best performance available. Quality and long term reliability is also essential. Therefore are all LNA's tested according to a very extensive test program.

The SMW waveguide Ka-Band LNA covers 17.30-22.30 GHz and has two SMA-connector outputs. Separate DC SMA connector.
Low input VSWR with Low loss waveguide isolator/circulator as standard.

Features

- Frequency range 17.3-22.3 GHz
- Compact size and light weight
- Two outputs
- Low VSWR with Low loss isolator
- Wide operating temperature range
- Compact size and light weight

TECHNICAL SPECIFICATIONS

MODEL:	Ka LNA 34 dB Dual output
Input Frequency	17.3 - 22.3 GHz
Gain	34 dB typ.
Flatness	±0.3 dB max. within 30 MHz , ±2 dB max. over band
Gain variation	±2 dB max. over -40 to +85°C max.
Noise Figure / Noise Temperature	1.5 dB / 120 K typ., 1.8 dB / 149 K max.
Output P1dB	+8 dBm typ.
Output IP3	+18 dBm typ.
Output VSWR	2.0:1 typ. (2.3:1 max.)
Output Connectors	SMA 50Ω
Input Waveguide	WR 42
Input Flange	PBR 220 with M3 thread
Input VSWR	1.20:1 max. with isolator
DC Input	+12 to +24V
Current Drain	110 mA typ.
DC Connector	One of the output connectors (SMA) or a separate SMA-connector
Temperature Range	-40 to +85°C
Dimensions	103 x 63 x 34 mm inclusive isolator (for drawing, see www.smw.se)
Weight	160 g
Miscellaneous	Enclosed O-ring, mounting screws (M3 x 8) 4 pcs.

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