Ka LNA 17.30-22.30 GHz Dual output

Key features



• Frequency range 17.30-22.30 GHz

KU-BAND

X-BAND

C-BAND

Q/V-BAND

RFo FIBER

--BAND

EXT REI

OTHER

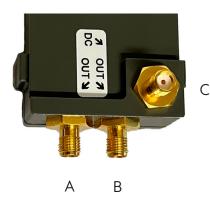
KA-BAND

- Dual output
- 34 dB gain
- High P1dB and IP3
- Low loss Isolator as standard
- Wide operating temperature range

Description

The SMW Ka LNA is used together with one BDC or in a Dual, Triple or Quad System.The Ka-Band LNA cover 17.30-22.30 GHz and has two SMA-connector outputs. Separate DC SMA connector.

LNA rear connectors standard



Connector A Type: SMA female only Function: RF Output

Connector B Type: SMA female only Function: RF Output

Connector C Type: SMA female only Functions: DC input

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KU-BAND KA-BAND Q/V-BAND X-BAND **RFo FIBER** C-BAND L-BAND **EXT REF** OTHER

Ka LNA 17.30-22.30 GHz Dual output

Technical specifications

	Model	Dual output
INTERNAL	Input frequency (GHz)	17.30-22.30 GHz
	Input WG	WR42
	Input flange	PBR220 with M3 thread
	Input VSWR	1.35:1 max. with Low Loss Isolator (included)
	DC input	+12 to 24 V
	DC connector	SMA female
	Gain	34 dB typ.
	Gain flatness	± 0.3 dB max. within 30 MHz, ±2 dB max. over band
	Gain variation	± 2 dB over temperature range.
	Noise figure @ 23°C	1.5 dB / 120 K typ., 1.8 dB / 149 K max.
OUTPUT	Output frequency	17.30-22.30 GHz
	Output P1dB	+8 dBm typ.
	Output IP3	+18 dBm typ.
	Output VSWR	2.0:1 typ. (2.3:1 max.)
	Output Connectors	2x SMA female 50Ω
	Current drain	110 mA typ.
GENERAL	Dimensions	103 x 63 x 34 mm
	Weight	160 g
	Temperature range	Storage and operating: -40 to +80°C, -40 to +176° F
	MTBF	MTBF as per MIL-HDBK-217F Notice 2: Environmental Condition GF (Ground Fixed): >690000 hours, Environmental Condition AIC (Airborne, Inhabited, Cargo): >360000 hour, Quality level: Commercial, Temperature used for MTBF calculation: +35°C Ambient
	Miscellaneous	Enclosed conductive O-ring, mounting screws, M3x8,4 pcs
OPTIONS		- Pressurizable 0.1 bar max.

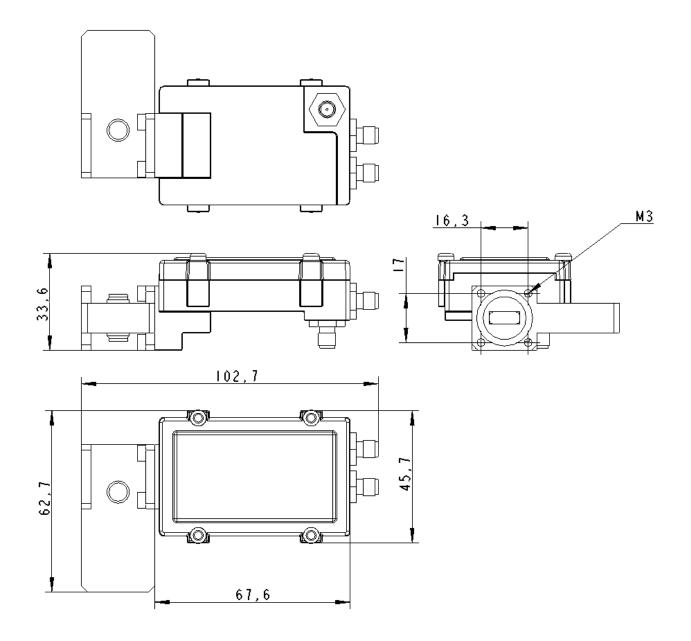




C-BAND X-BAND KU-BAND Q/V-BAND Q/V-BAND Q/V-BAND RFoFIBER L-BAND CTHER

Ka LNA 17.30-22.30 GHz Dual output

Technical Drawing





Professional Satcom Frequency Converters & Components. All products are fully CE and RoHS complient and every unit includes full documentation of performance tests and quality control. Please contact sales@smw.se to configure or customize the unit to your needs. Visit smw.se or scan QR code to see our full product range and request a quote.





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