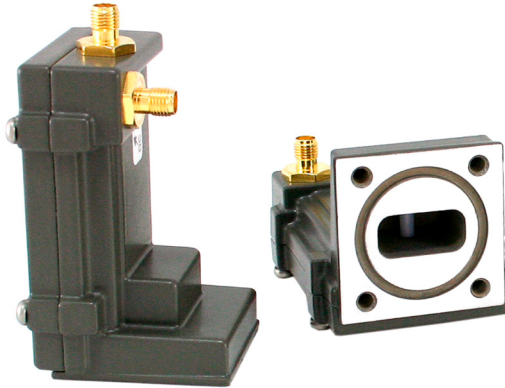


Ku LNA 10.70-12.75 GHz

Key features



- Frequency range 10.70-12.75 GHz
- Single or Dual output
- Compact size
- High P1dB and IP3
- Optional Low loss Isolator
- Wide operating temperature range



Description

The SMW Ku LNA is used together with one BDC or in a Dual System. The Ku-Band LNA cover 10.70-12.75 GHz and has one or two SMA-connector outputs. Separate DC SMA connector.

LNA rear connectors standard



A B

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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product range
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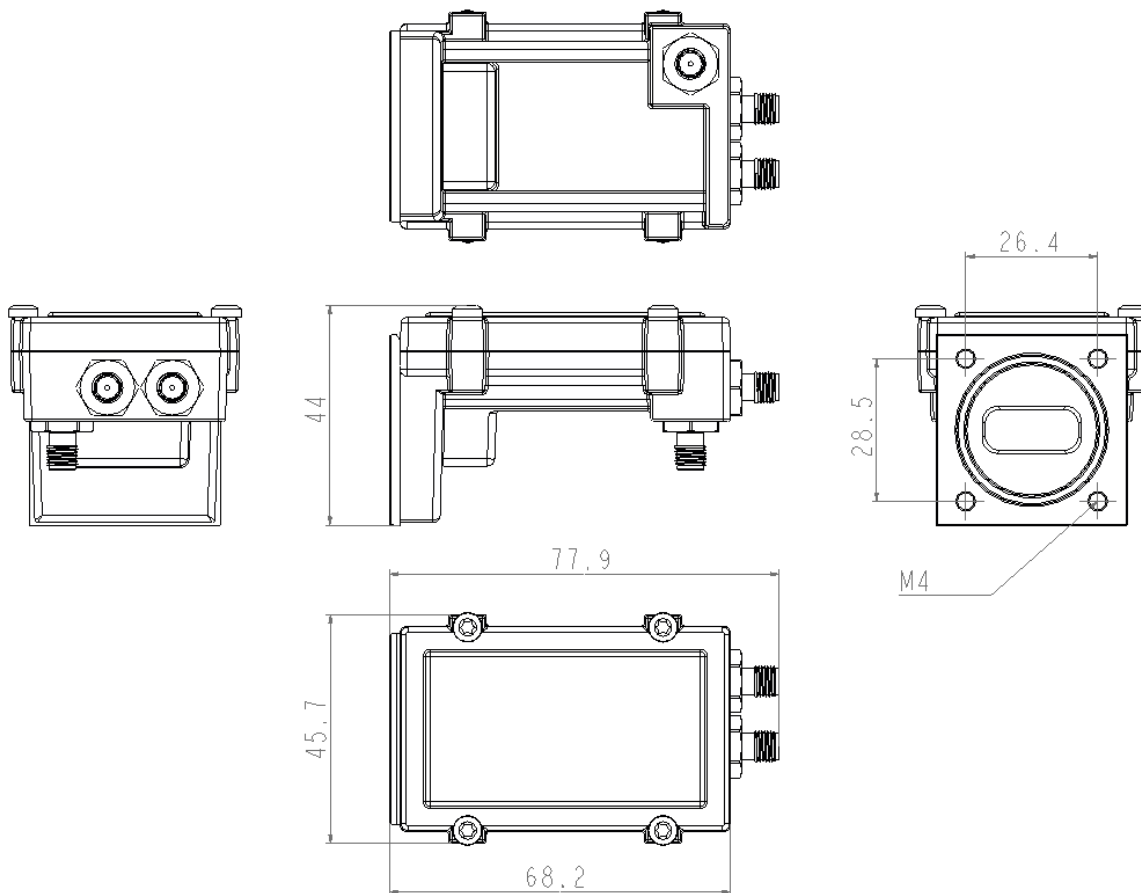
Ku LNA 10.70-12.75 GHz

Technical specifications

	Model	Single output	Dual output
INPUTS	Input frequency (GHz)	10.75-12.75 GHz	
	Input WG	WR75 / R120	
	Input flange	PBR 120 with M4 thread	
	Input VSWR	1.7:1 typ., 2.0:1 max., with optional Low Loss Isolator 1.25:1 (not included)	
	DC input	+12 to 24 V nom. (+10 V min., +26V max.)	
	DC connector	SMA female	
	Gain	30 dB typ.	26 dB typ.
INTERNAL	Gain flatness	± 0.3 dB max. within 30 MHz, ±2 dB max. over band	
	Gain variation	± 2 dB over temperature range.	
	Group delay	± 1 ns max.	
	Noise figure @ 23°C	0.8 dB / 1 K typ.	
OUTPUT	Output frequency	10.75-12.75 GHz	
	Output P1dB	+11 dBm min.	+7 dBm min.
	Output IP3	+21 dBm min.	+17 dBm min.
	Output VSWR	1.35:1 typ., 1.50:1 max.	
	Output Connectors	1x SMA female 50Ω	2x SMA female 50Ω
	Current drain	70 mA typ., 80 mA max.	
GENERAL	Dimensions	78 x 46 x 44 mm	
	Weight	124 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 (M4x10),4 pcs	
	Options	- Pressurizable 0.1 bar - Low Loss isolator	

Ku LNA 10.70-12.75 GHz

Technical drawings



Professional Satcom Frequency Converters & Components. All products are fully CE and RoHS compliant 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.

