

Diplexer 10 MHz and L-band

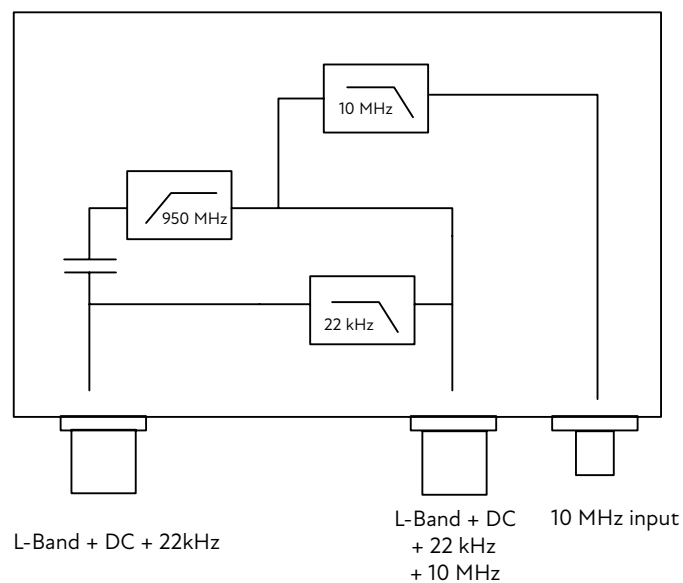
Key features



- Low through loss for L-Band
- Outdoor rated (IP 67)
- Wide operating temperature range
- 10 MHz/L-Band diplexing
- Passive ie no need of DC
- Available with F, N or SMA connectors

Description

The L-Band / 10 MHz diplexer is used when a external 10 MHz reference signal input is needed for an LNB or BUC. Used together with SMW 10 MHz ref. oscillator or other 10 MHz signal source. Available with F, N or SMA connectors.



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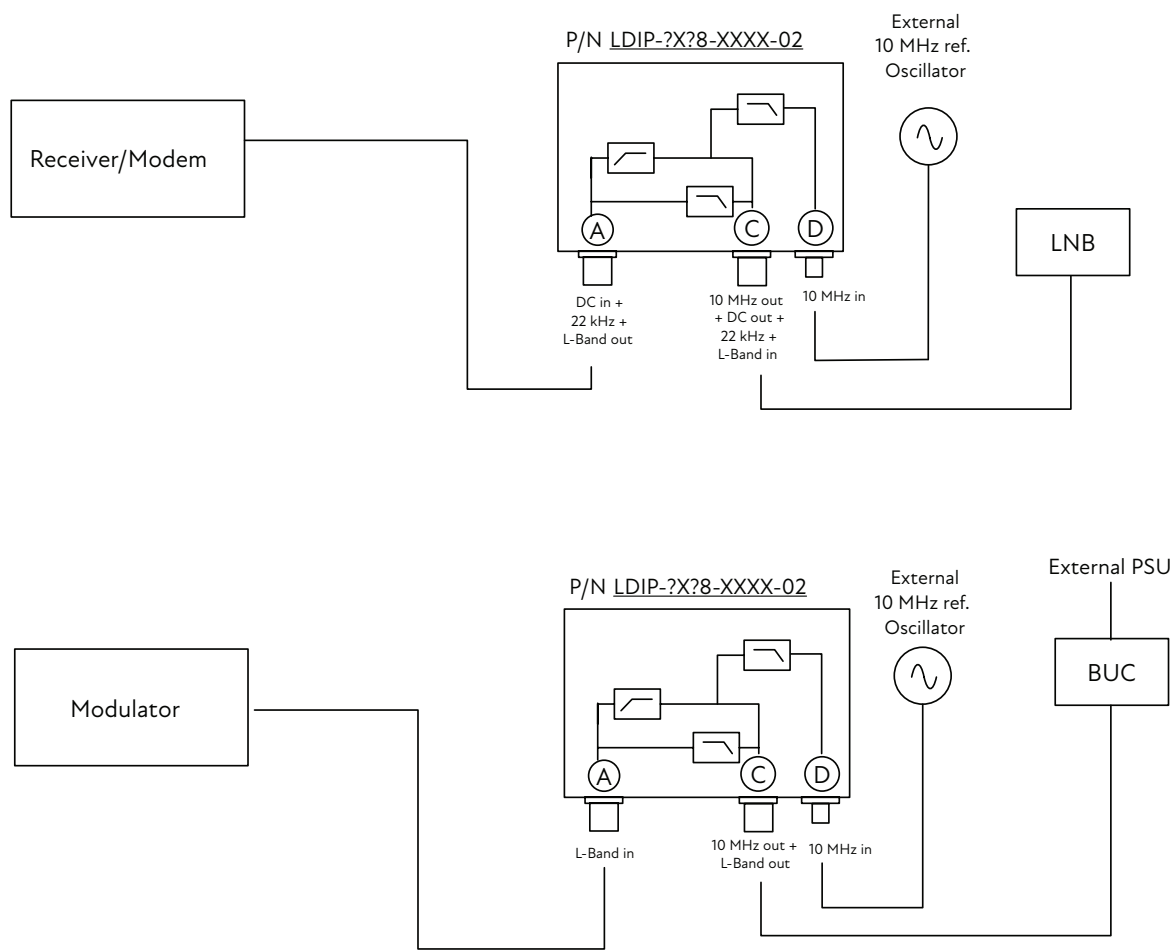
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Technical specifications

GENERAL	L-Band Frequency	950-2150 MHz
	DC in to out	+13 to +28 V
	Maximum load	1 A
	Insertion loss	1 dB @ 950-2150 MHz max.
	Return Loss @ 10 MHz	> 20 dB Input to Output
	Return loss L-Band	N- and SMA-connector: min. 10dB, typ 15 dB, with F connector min. 8dB, typ. 13 dB
	Group delay L-Band	± 1 ns max.
	10 MHz Harmonic Suppression	> 70 dBc @ L-Band output, > 40 dBc @ separate 10 MHz output
	Dimensions	96 x 28 x 89 mm (N connectors)
	Weight	209 g (F & SMA connectors), 249 g (N connectors)
	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): >9000000 hours, Environmental Condition AIC (Airborne, Inhabited, Cargo): >45000000 hours, Quality level: Commercial, Temperature used for MTBF calculation: +35°C Ambient
INTERFACES	Ingress protection code	IP 67
	22 kHz bypass	Through receiver or external source, n/a with DC Block IN or OUT
	Input connector (A)	SMA-type 50Ω female, N-type 50Ω female or F-type 75Ω female
	Output Connector (C)	SMA-type 50Ω female, N-type 50Ω female or F-type 75Ω female
	10 MHz connector (D)	SMA-type 50Ω female

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Installation example



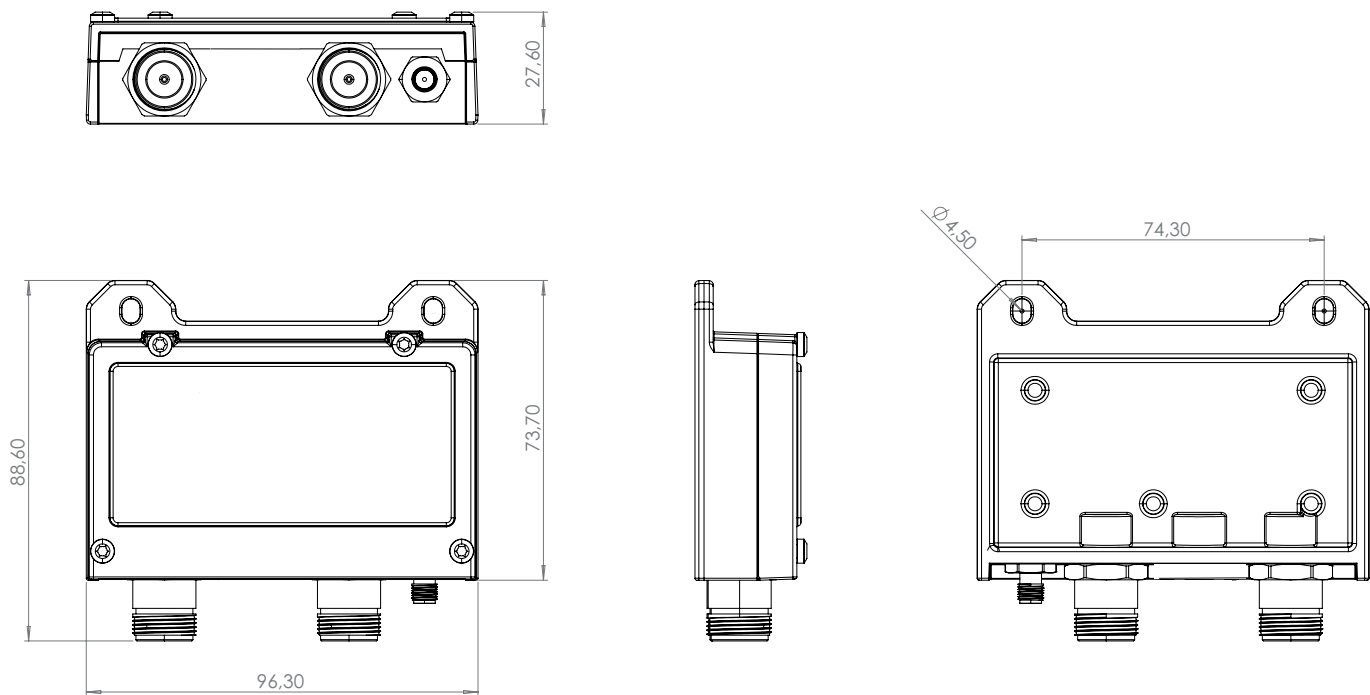
Part number designation for the 10 MHz Diplexer

Model	Connector A		Sep. DC input B		Connector C		Connector D		DC Block A	DC Block C	Future use	Future use	Version
LDIP	?		X		?		8		X	X	X	X	02
	0	F	X	N/A	0	F	8	SMA (only)	X	No DC block			
	5	N			5	N			1	DC block			
	8	SMA			8	SMA							

Example: L-Band out + DC + 22 kHz in(N), L-Band in + DC + 22 kHz out (N), 10 MHz input (SMA), = LDIP-5X58-XXXX-02

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Technical Drawing



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.

