

LNF 320

Low Noise Filter

Specifications

Rated Voltage:	10 V
Rated current:	4 A
Leakage current:	1 μ A max.
DC series resistance:	0.05 Ω max.

The LNF-320 is a common mode filter designed to reduce noise on laser diodes driven from ILX Lightwave current sources using the standard 9 pin Dsub connector. The filter is designed to be used in-line on the laser cable. A current source is naturally a high output impedance device, resulting in an increased susceptibility to noise pickup. The use of a filter will reduce the AC impedance and therefore reduce the radiated noise pickup at the output of the current source. This will not affect the DC performance of the current source. A common mode structure is used to isolate the laser (load) ground from the current source ground to reduce noise induced from system ground loops.

Noise Reduction vs. Frequency		
	50 Ω Load	3 Ω Load
10 Hz	-3.35 dB	-.035 dB
60 Hz	-16.14 dB	-2.8 dB
120Hz	-21.94 dB	-5.95 dB
1KHz	-38.13 dB	-20.18 dB



ACCESSORY

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