

Passive DWDM, Plug-In Single LGX Mux, 16Ch, 100 GHz spacing, starting CH20 (1561.42nm), LC/UPC connectors, with EXP & Mon(1%)



## PDW1M-16120-NN46

### Features

- Passive
- DWDM
- 100GHz spacing
- LGX Cassette
- Single Fiber Mux
- 16 Channels (20-35)
- Starting with channel 20 (1561.42nm)
- LC/UPC connectors
- Express Channel
- 1% Monitor option

### Applications

- Single Mode Fiber Networking
- Single Fiber
- Mux
- 16 channels
- Metro transport
- Regional Distribution
- Inside Plant (ISP) Operation

### Description

The L-COM PDW1M-16120-NN46 is a DWDM Passive Filter with 16 DWDM Channels. The L-COM PDW1M-16120-NN46 is a standard LGX filter with Mux functionality. The L-COM PDW1M-16120-NN46 has 16 DWDM channels: ITU CH20-35 starting with Channel 20 (1561.42nm) and with 100GHz channel spacing. The L-COM PDW1M-16120-NN46 has LC/UPC connectors and has Monitor port option on Mux. The L-COM PDW1M-16120-NN46 also has an Express Channel for passing all DWDM channels not present on this filter through, making this a great upgradable solution. The L-COM PDW1M-16120-NN46 is a single fiber filter with one sending muxed signal. L-COM produces the high quality passive filters that your business can rely on. With products continually in stock and same-day shipping, our expert technical support and knowledgeable sales team can get you to the right parts for the job.

### Configuration

Connector Type	LC/UPC
Number of Channels	16
Module Function	Mux
Filter Type	DWDM

### Filter Specifications

Description	Minimum	Typical	Maximum	Units
Operating Wavelength	1527.22		1564.68	nm
Pass Port Wavelength	1527.22		1564.68	nm
Pass Port Insertion Loss			3.5	dB
Pass Port Isolation	12			dB
Pass Band	0.68		0.93	nm
Pass Band Ripple			0.5	dB
Channel Spacing		0.83		nm
Channel Insertion Loss			3.5	dB
Return Loss	45			dB
Directivity			50	dB
PDL			0.25	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Passive DWDM, Plug-In Single LGX Mux, 16Ch, 100 GHz spacing, starting CH20 \(1561.42nm\), LC/UPC connectors, with EXP & Mon\(1%\) PDW1M-](#)

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## PDW1M-16120-NN46

PMD	0.2	PS
Power Handling	300	mW
Adjacent Channel Isolation	28	dB
Non-Adjacent Channel Isolation	40	dB
Channel to Monitor Port IL	26	dB
COM to Monitor Port IL	23	dB
IL Thermal Stability	0.005	dB/degC
Wavelength Thermal Stability	0.002	nm/degC

### Environmental Specifications

#### Temperature

Operating Range -20 to +65 deg C  
Storage Range -40 to +85 deg C

Humidity 5-95 %RH

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

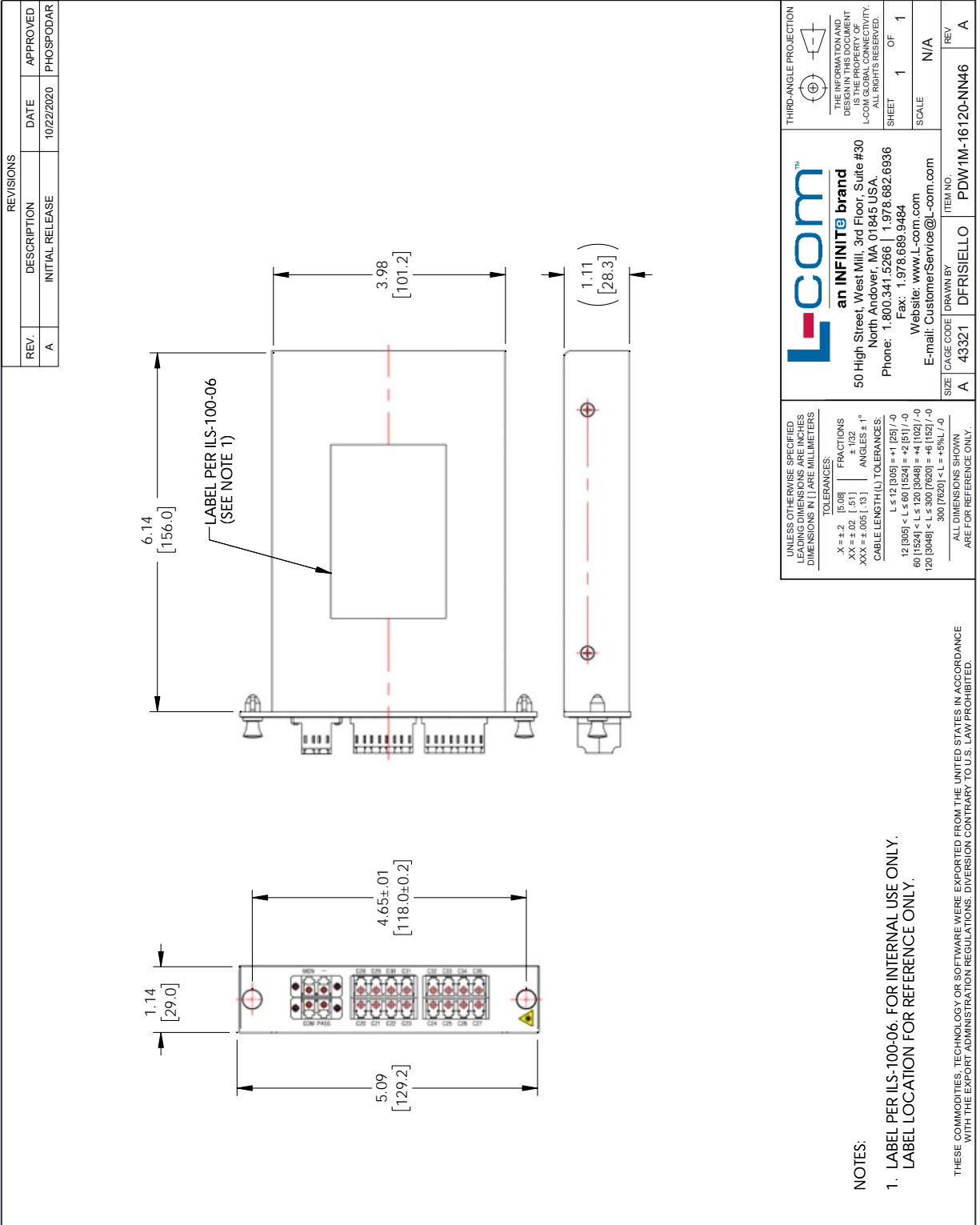
Notes:

Passive DWDM, Plug-In Single LGX Mux, 16Ch, 100 GHz spacing, starting CH20 (1561.42nm), LC/UPC connectors, with EXP & Mon(1%) from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X ± .2 [5.08] | FRACTIONS ± .132  
 .XX ± .02 [ .51 ] | ANGLES ± 1°  
 .XXX ± .005 [ .13 ]

CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = ± .1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = ± .2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = ± .4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = ± .6 [152] / -0  
 300 [7620] < L = ± .6% L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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ITEM NO. PDW1M-16120-NIN46  
 SCALE N/A  
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