

Passive DWDM, LGX Mux, 16 Channels w/ 100 GHz spacing, starting ch 20, LC-UPC, w/ Pass & Monitor



PDWDM-LGXM-16120

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 PolyPhaser PDWDM-LGXM-16120 is a DWDM Passive Filter with 16 DWDM Channels. The PolyPhaser PDWDM-LGXM-16120 is a standard LGX filter with Mux functionality. The PolyPhaser PDWDM-LGXM-16120 has 16 DWDM channels: ITU CH20-35 starting with Channel 20 (1561.42nm) and with 100GHz channel spacing. The PolyPhaser PDWDM-LGXM-16120 has LC/UPC connectors and has Monitor port option on Mux. The PolyPhaser PDWDM-LGXM-16120 also has an Express Channel for passing all DWDM channels not present on this filter through, making this a great upgradable solution. The PolyPhaser PDWDM-LGXM-16120 is a single fiber filter with one sending muxed signal. PolyPhaser 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	1,527.22		1,564.68	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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Passive DWDM, LGX Mux, 16 Channels w/ 100 GHz spacing, starting ch 20, LC-UPC, w/ Pass & Monitor PDWDM-LGXM-16120](#)

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PDL		0.25	dB
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

Weight 1.5 lbs [680.39 g]

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:

PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

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URL: <https://www.polyphaser.com/passive-dwdm-plug-in-single-lgx-mux-16ch-100-ghz-spacing-starting-ch20-1561.42nm-lc-upc-connectors-exp-mon1-pdw1m-16120-nn46-p.aspx>

The information contained in 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 implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

PDWDM-LGXM-16120 CAD Drawing

