

Passive DWDM, LGX Mux & DeMux, 8 Ch w/ 100 GHz spacing, start ch 44, LC-UPC, w/ Pass & Monitor



PDWDM-LGXMDM-08144

Features

- Passive
- DWDM
- 100GHz spacing
- LGX Cassette
- Two Fiber Mux& Demux Combo
- 8 Channels (44-51)
- Starting with channel 44 (1542.14nm)
- LC/UPC connectors
- Express Channel
- 1% Monitor option

Applications

- Single Mode Fiber Networking
- Dual Fiber
- Side by side Mux and DeMux functions
- 8 channels
- Metro transport
- Regional Distribution
- Inside Plant (ISP) Operation

Description

The PolyPhaser PDWDM-LGXMDM-08144 is a DWDM Passive Filter with 8 DWDM Channels. The PolyPhaser PDWDM-LGXMDM-08144 is a standard LGX filter with Combo Mux/DeMux functionality. The PolyPhaser PDWDM-LGXMDM-08144 has 8 DWDM channels: ITU CH44-51 starting with Channel 44 (1542.14nm) and with 100GHz channel spacing. The PolyPhaser PDWDM-LGXMDM-08144 has LC/UPC connectors and has Monitor port option on Mux and Demux. The PolyPhaser PDWDM-LGXMDM-08144 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-LGXMDM-08144 is a dual fiber filter with one sending muxed signal and the other receiving a composit signal for demuxing. 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	8
Module Function	Mux/DeMux
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	dB
Pass Band	0.68		0.93	nm
Pass Band Ripple			0.5	dB
Center Wavelength (Channel)	1,536.61		1,542.14	nm
Channel Spacing		0.83		nm
Channel Insertion Loss			3	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 & DeMux, 8 Ch w/ 100 GHz spacing, start ch 44, LC-UPC, w/ Pass & Monitor PDWDM-LGXMDM-08144](#)

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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 Moniter Port IL	25	dB
COM to Moniter Port IL	23	dB
IL Thermal Stability	0.005	dB/degC
Wavelength Thermal Stability	0.002	nm/degC
Weight	1 lbs [453.59 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-combo-mux-demux-8ch-100ghz-spacing-starting-ch44-1542.14nm-lc-upc-connectors-exp-mon1-pdw1c-08144-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-LGXMDM-08144 CAD Drawing

