

Passive DWDM, LGX Mux & DeMux, 4 Ch w/ 100 GHz spacing, start ch 40, LC-UPC, w/ Pass & Monitor



## PDWDM-LGXMDM-04140

### Features

- Passive
- DWDM
- 100GHz spacing
- LGX Cassette
- Two Fiber Mux& Demux Combo
- 4 Channels (40-43)
- Starting with channel 40 (1545.32nm)
- LC/UPC connectors
- Express Channel
- 1% Monitor option

### Applications

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

### Description

The PolyPhaser PDWDM-LGXMDM-04140 is a DWDM Passive Filter with 4 DWDM Channels. The PolyPhaser PDWDM-LGXMDM-04140 is a standard LGX filter with Combo Mux/DeMux functionality. The PolyPhaser PDWDM-LGXMDM-04140 has 4 DWDM channels: ITU CH40-43 starting with Channel 40 (1545.32nm) and with 100GHz channel spacing. The PolyPhaser PDWDM-LGXMDM-04140 has LC/UPC connectors and has Monitor port option on Mux and Demux. The PolyPhaser PDWDM-LGXMDM-04140 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-04140 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 | 4         |
| 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    |          |         | 2        | dB    |
| Pass Port Isolation         | 12       |         |          | dB    |
| Pass Band                   | 0.68     |         | 0.93     | nm    |
| Pass Band Ripple            |          |         | 0.5      | dB    |
| Center Wavelength (Channel) | 1,542.94 |         | 1,545.32 | nm    |
| Channel Spacing             |          | 0.83    |          | nm    |
| Channel Insertion Loss      |          |         | 2.5      | dB    |
| Return Loss                 | 45       |         |          | 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, 4 Ch w/ 100 GHz spacing, start ch 40, LC-UPC, w/ Pass & Monitor PDWDM-LGXMDM-04140](#)

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## PDWDM-LGXMDM-04140

|                                |       |         |
|--------------------------------|-------|---------|
| Directivity                    | 50    | dB      |
| 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     | 25    | dB      |
| COM to Monitor Port IL         | 23    | dB      |
| IL Thermal Stability           | 0.005 | dB/degC |
| Wavelength Thermal Stability   | 0.002 | nm/degC |

Weight 0.75 lbs [340.19 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-4ch-100ghz-spacing-starting-ch40-1545.32nm-lc-upc-connectors-exp-mon1-pdw1c-04140-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-04140 CAD Drawing

