

Passive DWDM, 1 RU 19" Mux & DeMux, 40 Ch w/  
100 GHz spacing, start ch 20, LC-UPC, w/ Monitor



## PDWDM-RMMDM-40120

### Features

- Passive
- DWDM
- 100GHz spacing
- 19" Rack Mount
- Two Fiber Mux& Demux Combo
- 40 Channels (20-59)
- Starting with channel 20 (1561.42nm)
- LC/UPC connectors
- 1% Monitor option

### Applications

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

### Description

The PolyPhaser PDWDM-RMMDM-40120 is a DWDM Passive Filter with 40 DWDM Channels. The PolyPhaser PDWDM-RMMDM-40120 is a 1RU 19" Rack Mount filter with Combo Mux/DeMux functionality. The PolyPhaser PDWDM-RMMDM-40120 has 40 DWDM channels: ITU CH20-59 starting with Channel 20 (1561.42nm) and with 100GHz channel spacing. The PolyPhaser PDWDM-RMMDM-40120 has LC/UPC connectors and has Monitor port option on Mux and Demux. The PolyPhaser PDWDM-RMMDM-40120 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	40
Module Function	Mux/DeMux
Filter Type	DWDM

### Filter Specifications

Description	Minimum	Typical	Maximum	Units
Operating Wavelength	1527.22		1564.68	nm
Pass Band	0.68		0.93	nm
Pass Band Ripple			0.5	dB
Channel Spacing		0.83		nm
Channel Insertion Loss			4	dB
Return Loss	45			dB
Directivity			50	dB
PDL			0.25	dB
PMD			0.2	PS
Power Handling			300	mW
Adjacent Channel Isolation	28			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, 1 RU 19" Mux & DeMux, 40 Ch w/ 100 GHz spacing, start ch 20, LC-UPC, w/ Monitor PDWDM-RMMDM-40120](#)

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## PDWDM-RMMDM-40120

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 7.5 lbs [3.4 kg]

### Environmental Specifications

#### Temperature

Operating Range -5 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-1-ru-19-inch-rack-mount-combo-mux-demux-40ch-100-ghz-spacing-starting-ch20-1561.42nm-lc-upc-connectors-mon-1-pdw3c-40120-nn44-p.aspx>

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