

DIGICOMM BPF OPTICAL BAND PASS FILTERS (ISP) 2, 4, 5, AND 10-BAND

FEATURES

- LGX Chassis-Compatible
- ½ Depth Module
- 100 GHz DWDM Channel Spacing (ITU G.694.1)
- ITU Channels 20-59
- LC/APC connectors
- Low-Insertion Loss
- High-Directivity
- Extensive Inventory IN-STOCK at our Distribution Center in Englewood, CO
- Fast-Track Fulfillment (most orders ship same-day)



FOMD-BPF10-LGX-LA

OVERVIEW

Digicomm's family of BPF Optical Band Pass Filters are designed to maximize the capacity of existing fiber optic networks, and easily enable the transport of separate bands of DWDM channels to different locations within a network. The use of optical band pass filters greatly reduces the need to demultiplex an optical transport to individual wavelengths and then remultiplex those wavelengths into smaller groups, eliminating both signal loss and cost from the transport. Digicomm's BPF Optical Band Pass Filters provide flexibility, along with industry leading specifications.

Digicomm's Optical Band Pass Filters use the standard ITU channel plan (ITU G.694.1), support 100 GHz channel spacing, and operate between ITU channels 20 and 59. All of Digicomm's Optical Band Pass Filters are standard LGX style, ½ depth, can be mounted inside a standard LGX passive chassis, and use LC/APC connectors. Digicomm's BPF Optical Band Pass Filters also include Dual Test Ports (transmit / receive) to assist with any network troubleshooting.

SPECIFICATIONS

OPTICAL	2-BAND	4-BAND	5-BAND	10-BAND
Band XX to COM Insertion Loss \leq dB	1.0	1.3	1.5	2.0
COM to TP Insertion Loss \leq dB	21 \pm 1	21 \pm 1	21 \pm 1	21 \pm 1
EXP to COM Insertion Loss \leq dB	0.8	0.8	N/A	N/A
UPG to COM Insertion Loss \leq dB	2	2	N/A	N/A
Optical Return Loss \geq dB	45	45	45	45
Polarization Dependent Loss, max \leq dB	0.2	0.2	0.15	0.15
Ripple \leq dB	0.4	0.4	0.5	0.5
Adjacent Channel Isolation \geq dB	28	28	15	15
Non-Adjacent Channel Isolation, min \geq dB	40	40		
Connector Type	LC/APC	LC/APC	LC/APC	LC/APC
Power Handling (mW)	300	300	300	300

PHYSICAL	2-BAND	4-BAND	5-BAND	10-BAND
Dimensions (cm.)	12.9H, 7.6D, 2.9W	12.9H, 7.6D, 2.9W	12.9H, 7.6D, 2.9W	12.9H, 7.6D, 2.9W
Dimensions (in.)	5.1H, 3.0D, 1.14W	5.1H, 3.0D, 1.14W	5.1H, 3.0D, 1.14W	5.1H, 3.0D, 1.14W

ENVIRONMENTAL	2-BAND	4-BAND	5-BAND	10-BAND
Storage Temperature	-40° C to 85° C	-40° C to 85° C	-40° C to 85° C	-40° C to 85° C
Operating Temperature	-40° C to 85° C	-40° C to 85° C	-40° C to 85° C	-40° C to 85° C

ORDERING INFORMATION

# OF BANDS	PART NUMBER	DESCRIPTION
2	FOMD-BPF2-LGX-LA	MUX, 2 Band, LGX, Band 1: ITU 18-39, Band 2: ITU 44-62, LC/APC, COM, DTP
4	FOMD-BPF4-LGX-LA	MUX, 4 Band, LGX, Band 1: ITU 21-26, Band 2: ITU 28-39, Band 3: ITU 44-54, Band 4: ITU 57-62 LC/APC, COM, DTP
5	FOMD-BPF5-LGX-LA	MUX, 5 Band, LGX, Band 1: ITU 20-27, Band 2: ITU 28-35, Band 3: ITU 36-43, Band 4: ITU 44-51 Band 5: ITU-52-59 LC/APC, COM, DTP
10	FOMD-BPF10-LGX-LA	MUX, 10 Band, LGX, Bands: ITU 20-23, 24-27, 28-31, 32-35, 36-39, 40-43, 44-47, 48-51, 52-55, 56-59, LC/APC, COM, DTP