

25G PON CoEx Passive Filter

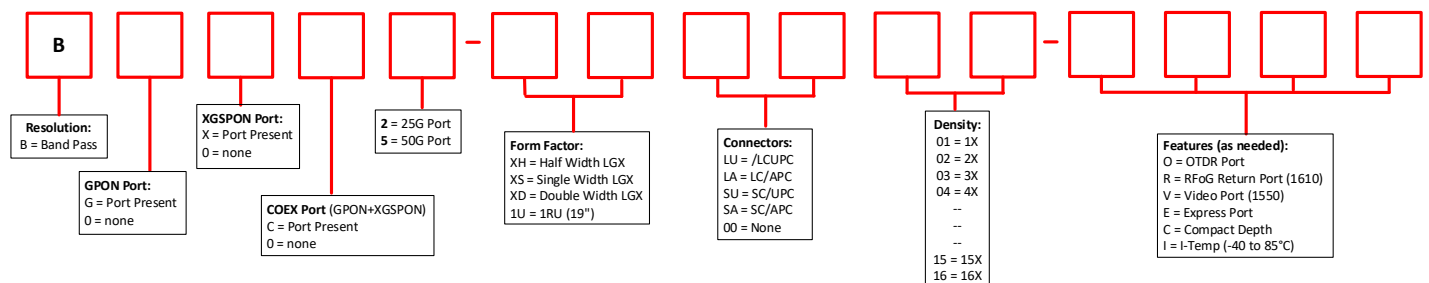
ISP (Indoor Use)



Product Description:

ISP 25G PON Band Pass Filter with OTDR Port

Product Ordering Information



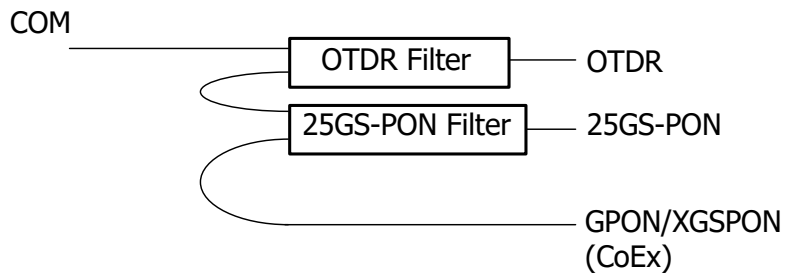
Part Number / Description

Part Number	Description
B00C2-XHSA01-OCI	Band Pass/CoEx Filter, 25GPON Port, CoEx GPON/XGSPON Port, LGX Half-width, SC-APC Connectors, OTDR Port, Compact Depth

Optical Characteristics

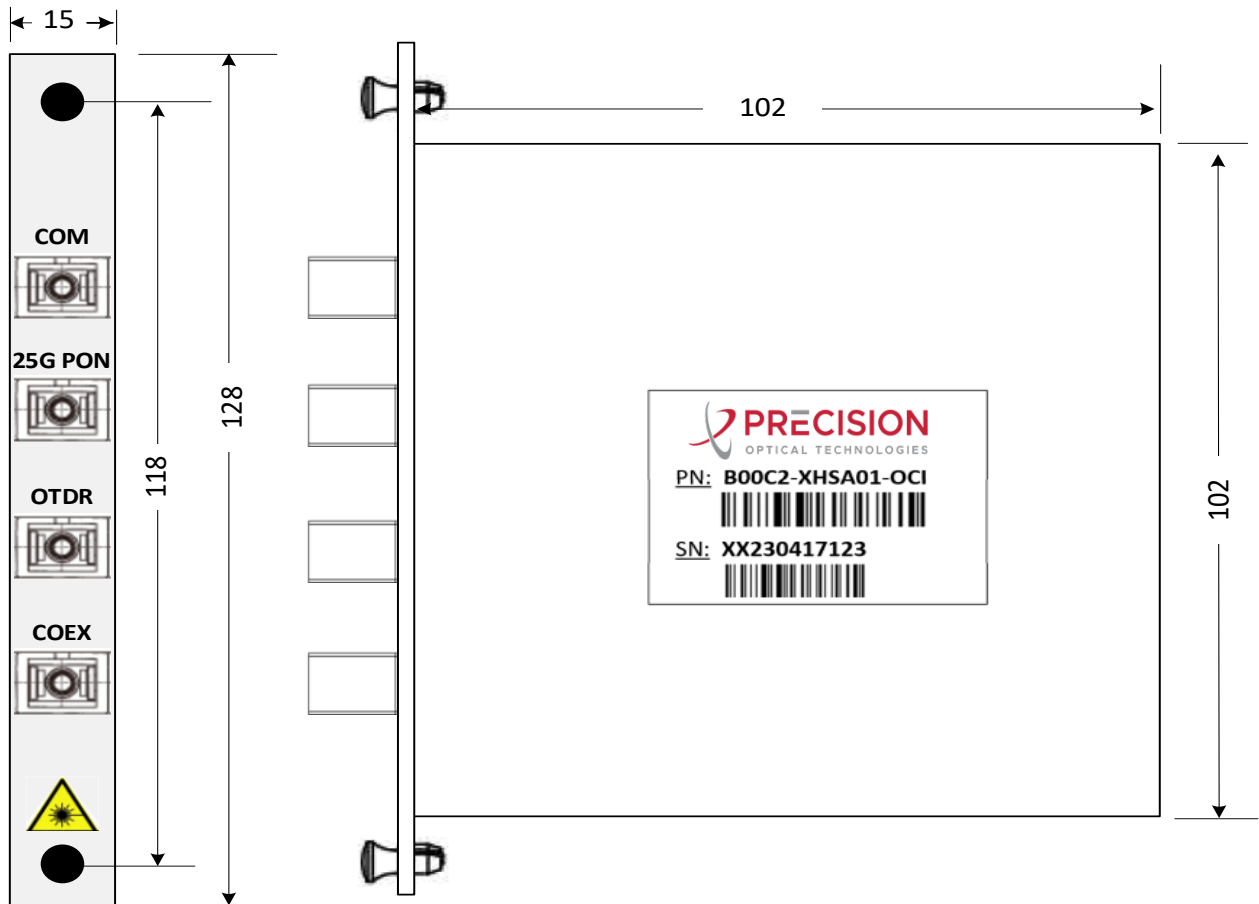
Parameter	Value	Unit
25GPON Port Passband	1284~1287 & 1340~1360	nm
25GPON Port Insertion Loss @ -0.5dB	≤ 1.2	dB
25GPON Port Ripple @ -0.5dB	≤ 0.5	dB
25GPON Port Isolation	≥ 25@CoEx Port ≥ 15@OTDR Port	dB
COEX (GPON + XGSPON) Port Passband	1260~1280, 1290~1330 1480~1581	nm
COEX (GPON + XGSPON) Port Insertion Loss @ -0.5dB	< 1.2	dB
COEX (GPON + XGSPON) Ripple @ -0.5dB	< 0.5	dB
COEX (GPON&XGSPON) Port Isolation	≥ 15	dB
OTDR Port Passband	1625~1670	nm
OTDR Port Passband Insertion Loss @ -0.5dB	≤ 1.0	dB
OTDR Port Ripple @ -0.5dB	≤ 0.5	dB
OTDR Port Isolation	≥ 30	dB
Directivity	≥ 45	dB
Return Loss	> 45	dB
Polarization Dependent Loss	< 0.25	dB
Polarization Mode Dispersion	≤ 0.2	ps
IL Thermal Stability	≤ 0.005	dB/°C
Wavelength Thermal Stability	≤ 0.002	nm/°C
Maximum Input Power	300	mW
Operating Temperature	-5 to +65 (Indoor) -40 to 85 (Outdoor, I-Temp)	°C
Operating Humidity	0 to 95	%RH
Fiber Type (all ports)	SMF-28e (G.657.A1)	

Filter Optical Design



High-Level Design

Filter Physical Design



25G PON/COEX GPON/XGSPON Ports w/ OTDR Port External Design
(B00C2-XHSA01-OCI shown)