

ERBIUM AMPLIFIER COMPONENTS

OPTICAL SERVICE CHANNEL WDM

DiCon's Optical Service Channel WDM multiplexes 1310 nm, 1480 nm, 1510 nm, or 1625 nm telemetry signals in dense WDM networks. The component uses a thin film filter mounted between a pair of GRIN lens collimators. The Optical Service Channel Filter WDM is housed in a compact, environmentally stable package that offers superior resistance to humidity and temperature and is suitable for mounting within a fiber gain module.



FEATURES

- Wide selection of telemetry wavelengths
- Low insertion loss
- High isolation
- Rugged, environmentally stable package
- Tested to Telcordia GR-1209 and GR-1221

APPLICATIONS

Optical Service Channel WDMs are used to add or drop telemetry signals within fiber amplifiers and terminal equipment.



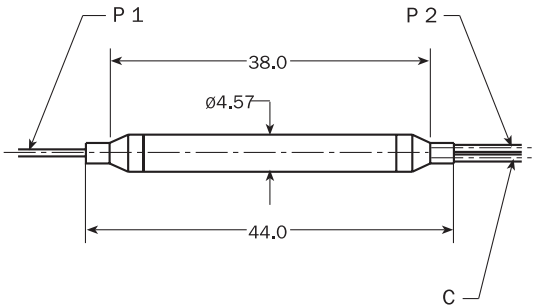
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SPECIFICATIONS¹

Insertion loss C - P1	0.6 dB typ., 0.8 dB max.
Insertion loss C - P2	0.5 dB typ., 0.6 dB max.
Isolation C - P1	30 dB min.
Isolation C - P2	15 dB typ., 12 dB min.
Ripple C - P1	0.3 dB max.
Ripple C - P2	0.1 dB max.
Directivity	55 dB min.
Back-reflection	-50 dB max.
PDL	0.05 dB typ., 0.1 dB max.
Fiber type	9/125 Corning SMF-28
Operating temperature	0°C to +65°C
Storage temperature	-40°C to +85°C

1. All specifications referenced without connectors.

HOUSING DIMENSIONS¹



Units: mm
1. Optional 38 or 40 mm housing lengths by request.

ORDERING INFORMATION

OSC - [] - [] - [] - [] - []	
Transmission Band C-P1 ^{1,2}	
51	1500.0 - 1520.0 nm
14	1460.0 - 1490.0 nm
14/15	1470.0 - 1514.0 nm
15	1530.0 - 1563.0 nm
16	1610.0 - 1625.0 nm
15/16	1570.0 - 1603.0 nm
Lower Reflection Band C - P2 ^{1,2}	
51	1500.0 - 1520.0 nm
14/15	1470.0 - 1514.0 nm
15	1530.0 - 1563.0 nm
16	1610.0 - 1625.0 nm
15/16	1570.0 - 1603.0 nm
Upper Reflection Band C - P2 ^{1,2}	
51	1500.0 - 1520.0 nm
14	1460.0 - 1490.0 nm
15	1530.0 - 1563.0 nm
16	1610.0 - 1625.0 nm
15/16	1570.0 - 1603.0 nm
Connector Type	
FC	FC/SPC
FC/APC	FC/APC
FC/UPC	FC/UPC
SC	SC/SPC
SC/APC	SC/APC
SC/UPC	SC/UPC
ST	ST/SPC
ST/UPC	ST/UPC
LC	LC/SPC
LC/UPC	LC/UPC
MU/UPC	MU/UPC
N	None
Fiber Jacket	
2	250 micron, 200 kpsi bare fiber
9	900 micron, tight buffer
Pigtail Length	
1	1 meter
X	Specify X meters

1. All wavelengths referenced to vacuum.
2. Other transmission and reflection bands available upon request.