

WDM COMPONENTS

WIDEBAND WDM

DiCon's Wideband WDM is designed to multiplex or demultiplex signals in multi-wavelength systems. The component uses a thin film filter mounted between a pair of GRIN lens collimators. DiCon's Wideband WDM is housed in a compact, environmentally stable package that offers superior resistance to humidity and temperature and is suitable for mounting on a printed circuit board or within a module. DiCon stocks a wide selection of filters with passbands.



FEATURES

- High isolation over a broad wavelength range
- Low insertion loss
- High isolation
- Rugged, environmentally stable package
- Tested to Telcordia GR-1209 and GR-1221

APPLICATIONS

Wideband WDMs are used to transmit groups of WDM laser channels in DWDM and CWDM transmission systems. Wideband WDMs help to make WDM transmission systems modular, so that additional channel groups can be added to the network over time without service disruption.



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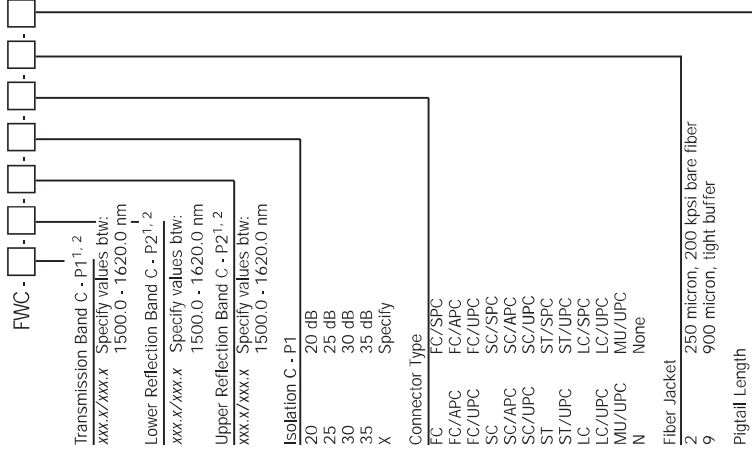
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SPECIFICATIONS¹

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 - P2	15 dB typ., 10 dB min.
Directivity	55 dB min.
Backreflection	-50 dB max.
PDL	0.05 dB typ., 0.1 dB max.
Optical power	300 mW max.
Thermal stability	0.005 dB/°C 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.

ORDERING INFORMATION



Transmission Band C - P1^{1, 2}
xxx.x/xxx.x Specify values btw:
1500.0 - 1620.0 nm

Lower Reflection Band C - P2^{1, 2}
xxx.x/xxx.x Specify values btw:
1500.0 - 1620.0 nm

Upper Reflection Band C - P2^{1, 2}
xxx.x/xxx.x Specify values btw:
1500.0 - 1620.0 nm

Isolation C - P1
20 20 dB
25 25 dB
30 30 dB
35 35 dB
X Specify

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

Units: mm
1. Optional 38 or 40 mm housing lengths by request.
2. Transmission and reflection bands must not overlap.

HOUSING DIMENSIONS¹

