WDM Components

Coarse WDM

DiCon's Coarse WDM is designed to multiplex and demultiplex signals in metropolitan, access, and enterprise networks. Coarse WDMs are low cost components for systems with fewer than eight channels and feature wide 13 nm channel passbands to accommodate variations in laser center wavelengths over temperature.

Features

• Channel plans based on 20 nm channel spacing
• High isolation for demultiplexing applications
• Low insertion loss
• Tested to Telcordia GR-1221

Applications

Coarse WDMs multiplex and demultiplex signals in systems based on an emerging industry standard grid with 20 nm channel spacings. These systems use uncooled lasers and low cost Coarse WDM components as an alternative to more expensive components based on 100 GHz or 200 GHz channel plans.


Specifications[1]

Channel spacing	20 nm
Passband C - P1[2]	13 nm min.
Insertion loss C - P1	0.6 dB typ., 1.0 dB max.
Insertion loss C - P2	0.6 dB max.
Isolation C - P1	25 dB min.
Isolation C - P2	10 dB min.
Directivity	55 dB min.
Back-reflection	-45 dB max.
PDL	0.05 dB typ., 0.1 dB max.
Optical power	300 mW 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.
2. Other passbands available by request.

Housing Dimensions[1]

P 1   P 2
38.0
ø4.57
44.0
C
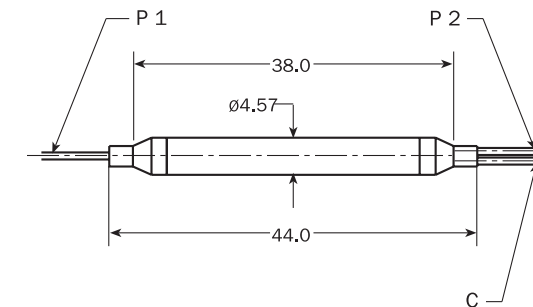
Units: mm
1. Optional 38 or 40 mm housing lengths by request.

Ordering Information

CW2- ☐ - ☐ - ☐ - ☐

CWDM CWL
01	1431
02	1451
03	1471
04	1491
05	1511
06	1531
07	1551
08	1571
09	1591
10	1611

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 |

DiCon
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