

OPTICAL DCM [ODCM-1550-x-x-x]

Fiber Products, Dispersion Compensation Module

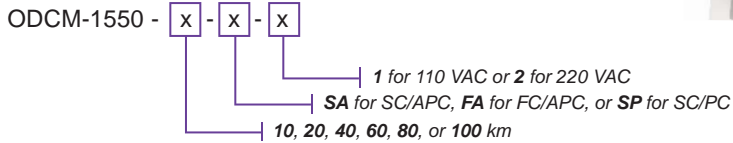
TaiTin

Features

- Compatible with Standard Single Mode Optical Fiber Smf-28 (ITU G.652), 1525 ~ 1565 nm Transmission Channel
- Eliminates the Influence of a System's Index, Due to Residual Dispersion
- 100% Dispersion Slope Compensation
- Options for Dispersion Compensation Range from 10 ~ 100 km
- Low Insertion Loss, Low Polarized Mode Dispersion



Ordering Information



Specifications

Operating Wavelength	1525 - 1565 nm
Pass Power	30 dBm
Effective Area	20 m ²
Nonlinearity	1.4 x 10 ⁻⁹ n ² /Aeff
SBS Threshold	6 dBm
Optical Connector	SC/APC, FC/APC, SC/PC
Return Loss	-45 dB
Residual Dispersion Slope	0.0036 nm ⁻¹
Polarization Dependence Loss	0.1 dB

1525 ~ 1565 nm Optical Fiber Insertion Loss (not including two connectors loss)

ODCM-1550-10-x-x	1.2 dB
ODCM-1550-20-x-x	1.8 dB
ODCM-1550-40-x-x	3.2 dB
ODCM-1550-60-x-x	4.5 dB
ODCM-1550-80-x-x	6.0 dB
ODCM-1550-100-x-x	7.4 dB

Dispersion Value

Model	1525 nm	1545 nm	1565 nm
ODCM-1550-10-x-x	-159 ~ -145 ps/nm	-170 ~ -158 ps/nm	-184 ~ -168 ps/nm
ODCM-1550-20-x-x	-315 ~ -293 ps/nm	-337 ~ -319 ps/nm	-364 ~ -340 ps/nm
ODCM-1550-40-x-x	-629 ~ -588 ps/nm	-673 ~ -640 ps/nm	-727 ~ -682 ps/nm
ODCM-1550-60-x-x	-942 ~ -883 ps/nm	-1009 ~ -960 ps/nm	-1090 ~ -1024 ps/nm
ODCM-1550-80-x-x	-1251 ~ -1183 ps/nm	-1340 ~ -1280 ps/nm	-1448 ~ -1371 ps/nm
ODCM-1550-100-x-x	-1560 ~ -1482 ps/nm	-1671 ~ -1611 ps/nm	-1805 ~ -1718 ps/nm

1530 ~ 1565 nm Wavelength Dependence Loss

ODCM-1550-10-x-x	0.5 dB
ODCM-1550-20-x-x	0.6 dB
ODCM-1550-40-x-x	0.6 dB
ODCM-1550-60-x-x	0.7 dB
ODCM-1550-80-x-x	0.8 dB
ODCM-1550-100-x-x	0.8 dB

Polarization Mode Dispersion

ODCM-1550-10-x-x	0.1 dB
ODCM-1550-20-x-x	0.2 dB
ODCM-1550-40-x-x	0.2 dB
ODCM-1550-60-x-x	0.2 dB
ODCM-1550-80-x-x	0.3 dB
ODCM-1550-100-x-x	0.3 dB

Dispersion Optical Fiber Length

ODCM-1550-10-x-x	1 km
ODCM-1550-20-x-x	2 km
ODCM-1550-40-x-x	4.1 km
ODCM-1550-60-x-x	6.1 km
ODCM-1550-80-x-x	8.1 km
ODCM-1550-100-x-x	10.2 km

General Features

Operating Temp.	-5°C to 70°C (23°F to 158°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Operating Humidity	0 - 85 %
Storage Humidity	0 - 85%
Size (W)x(D)x(H)	483 x 279 x 44 mm (19 x 11 x 1.75 in)

Model	Range	Description
ODCM-1550-10-x-x	10 km	Dispersion Compensation Module, G6.52 standard single mode, 10 km, passive, C band 1525-1565 nm, 19" 1RU rackmount
ODCM-1550-20-x-x	20 km	Dispersion Compensation Module, G6.52 standard single mode, 20 km, passive, C band 1525-1565 nm, 19" 1RU rackmount
ODCM-1550-40-x-x	40 km	Dispersion Compensation Module, G6.52 standard single mode, 40 km, passive, C band 1525-1565 nm, 19" 1RU rackmount
ODCM-1550-60-x-x	60 km	Dispersion Compensation Module, G6.52 standard single mode, 60 km, passive, C band 1525-1565 nm, 19" 1RU rackmount
ODCM-1550-80-x-x	80 km	Dispersion Compensation Module, G6.52 standard single mode, 80 km, passive, C band 1525-1565 nm, 19" 1RU rackmount
ODCM-1550-100-x-x	100 km	Dispersion Compensation Module, G6.52 standard single mode, 100 km, passive, C band 1525-1565 nm, 19" 1RU rackmount