160 Channel Dense Wavelength Division Multiplexer Open Platform

DWDM160 Series

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Oplink's 160 Channel DWDM Open Platform is a complete set of modules and components necessary to build high-capacity 1.6 Tb/s fiber optic telecommunications systems. Oplink's DWDM platform is fully upgradeable, scalable, compact and athermal. A fiber optic system may be economically built using a small initial number of DWDM channels and later scaled for higher channel counts by adding additional modules and components, as network traffic needs dictate. Oplink's DWDM platform offers designers a high degree of flexibility due to its small size and athermal characteristics. Components may be mounted directly on system circuit boards because of their size and the athermal design eliminates the need for costly temperature compensation. The system is bi-directional and may be employed as either a multiplexer or demultiplexer.

Performance Specifications

DWDM160 Series	Min	Typical	Max	Unit
Channel Passband @-0.5 dB	16	20		GHz
Insertion Loss		9	10.5	dB
Passband Ripple			0.5	dB
Adjacent Channel Isolation	25			dB
Non-adjacent Channel Isolation	30			dB
Polarization Dependent Loss		0.5	0.6	dB
Polarization Mode Dispersion		0.5	0.8	ps
Operating Temperature		0 - 65		°C

Values Referenced Without Connectors

Features

- Wide, Flat Pass Band
- Low Insertion Loss
- High Channel Isolation
- Superior Channel Uniformity
- Epoxy-Free in the Optical Path
- Unlimited Bit-Rate Transparency
- Near Zero Dispersion
- Polarization Insensitive
- Protocol Independent
- Athermal - No Power Consumption
- Compact, Modular Design
- Custom Made to Specifications
- Massively Scalable
- Bellcore Compliant
- Complete Package Solutions
- Excellent Stability and Reliability

Applications

- Fiber Optic Networks: Ultra Long Haul, Long Haul, and Metro
- Network Topologies: Ring and Mesh

Ordering Information

DWDM □ □ □ □ □ □ □ □ □ □ □

Channel Spacing
50 GHz=5

Channels
160ch=160
80ch=080
40ch=040

Confirmations
MUX=M
DEMUX=D

Starting ITU Channel
Refer to ITU Channel Table Page 39

Package Type
P1=1

Fiber Type
900 µm loose tube=2

Fiber Length
1 Meter=1*

Connector Type
None=1
FC/PC=2
FC/SPC=3
FC/APC=4
SC/PC=5
SC/SPC=6
SC/APC=7
ST=8
LC=9
MU=A

** 1 meter is standard. The lead time for special fiber length will be longer.*

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