COMPASS

8-Channel DWDM Mux/DMux Modules:

Applications:

The ATX 8-channel DWDM Mux/DMux has been used in many applications, including:

- Node segmentation utilizing multiwave transport
- HFC distribution networks
- Broadband systems
- Optical add/drop multiplexing
- RFoG applications
- FTTx networks
- Long haul super-trunking

Features:

- Housed in ATX's Compass chassis
- Eight modules can be housed in the CPS-CH-8 Compass chassis
- Express port for wavelength expansion
- Low insertion loss
- High isolation
- Bi-directional
- Low crosstalk

ATX's high performance 200 GHz dense WDM multiplexers & demultiplexers are available in standard ITU channel spacings ranging from 1528-1565nm. Custom wavelengths are available upon request. The units come with an express port for seamless integration of additional wavelengths & are designed to be housed in ATX's passive Compass chassis. Up to eight modules can be housed in the CPS-CH-8 & four in the CPS-4R chassis.

The CPS-8-5339-C & CPS-8-3723-C are 8-channel DWDM Mux/DMux with an upgrade port & are OSP specified. They are available with SC/APC connectors.

8-channel DWDM Mux/DMux Module
(front view)

8-channel DWDM Mux/DMux Module
(rear view)

8-Channel DWDM Mux/DMux Modules:

8-Channel DWDM Mux/DMux Module Specifications

SPECIFICATIONS		
PARAMETERS		
WAVELENGTH SPACING		200 GHz
WAVELENGTHS λC	DWDM CPS-8-5339-C	C39 (1546.12nm), C41 (1544.52nm) C43 (1542.92nm), C45 (1541.32nm) C47 (1539.72nm), C49 (1538.12nm) C51 (1536.52nm), C53 (1535.05nm)
	DWDM CPS-8-3723-C	C23 (1558.98nm), C25 (1557.36nm) C27 (1555.75nm), C29 (1554.14nm) C31 (1552.52nm), C33 (1550.92nm) C35 (1549.32nm), C37 (1547.72nm)
PASSBAND		λc ± 0.25nm
INSERTION LOSS(1)		< 2.6 dB
INBAND RIPPLE		< 0.5 dB
POLARIZATION DEPENDENT LOSS		< 0.2 dB
EXPRESS PORT		
OPERATING WAVELENGTH	DWDM CPS-8-5339-C	1430-1553.7nm, 1547.5-1610nm
	DWDM CPS-8-3723-C	1430-1547nm, 1559.5-1610nm
INSERTION LOSS		< 2.2 dB
ISOLATION		> 12 (@ λc ± 0.25) dB
ADJACENT CHANNEL ISOLATION		> 25 dB
NON-ADJACENT CHANNEL ISOLATION		> 45 dB
PMD(2)		< 0.2 ps
RETURN LOSS(3)		> 45 dB
DIRECTIVITY		> 50 dB
FIBER TYPE		SMF, Tight Buffered 900 Micron
FIBER LENGTH		100 ± 10 cm
CONNECTOR TYPE		SC/APC
ENVIRONMENTAL		
OPTICAL POWER HANDLING		500mW
OPERATING TEMPERATURE	STANDARD	0ºC to +50ºC (+32ºF to +122ºF)
	HARDENED	-40ºC to +85ºC (-40ºF to +185ºF)
STORAGE TEMPERATURE		-40ºC to +85ºC (-40ºF to +185ºF)
HUMIDITY	OPERATING	5-85% Non-condensing
	STORAGE	5-95% Non-condensing
PHYSICAL		
DIMENSIONS		1.5"H x 3.5"W x 7.25"D (3.8H x 8.89W x 18.42D cm)
WEIGHT		0.5 lbs (0.2 kg)

NOTES:
(1) Insertion loss includes WDL, TDL & PDL.
(2) Guaranteed by design.
(3) Return loss is specified without connectors.

Ordering Information

Part Number	Description
CPS-8-3723-C	COMPASS High Density Mux/DMux Module, 8 WL, ITU Channels 37 to 23, 200 GHz Spaced, SC/APC Input & Output Connectors.
CPS-8-5339-C	COMPASS High Density DMux Module, 8 WL, ITU Channels 53 to 39, 200 GHz Spaced, SC/APC Input & Output Connectors.

Specifications subject to change without notice.

powered by InnoTrans

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