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OPTICAL LINE PROTECTION MODULE (OLPM)

O-Net optical line protection module use high performance optical switch technology to provide real time protection against fiber cut and failure. This module monitors the optical power on both the primary and secondary link. When the power on one optical link drops below the setting threshold, the module will switch the optical transmission to the redundant link. The operation is independent of transmission rate, format and wavelength.

Features

- Fast Switching Time of 20ms
- Real Time Monitoring and Protection
- Independent of Transmission Rate, Format and Wavelength
- Customized Control Interface
- Rs232 or RJ45 Command Interface
- Build in Laser for Redundant Link

Applications

- Optical Line Protection for SDH System
- Optical Line Protection for DWDM System

Specifications

Parameter			Specification	Unit
Operating Wavelength Range[1]			1260~1360 Or 1460~1640	nm
Insertion loss	Tx to T1/T2	Max	1.2	dB
	R1/R2 to Rx	Max	1.2	dB
Wavelength Dependent Loss		Max	0.5	dB
Return loss		Min	45	dB
PDL		Max	0.2	dB
Build In Laser Power			–5~0	dBm
Build In Laser Wavelength			1550±20	nm
Monitor Optical Power Range			Tx: -30~ +25; Rx: -40~ +10	dBm
Monitor Optical Power Accuracy			±0.5	dB
Monitor Optical Power Resolution			0.1	dB
Switching Speed		Max	20	ms
Lifetime		Min	1,000,000	time
Switching Type			Latched when power off	
Power Consumption		Min	2	W
Operating Voltage			+4.5~+5.5	V
Command Interface			RS232 or RJ45	
Maximum Operating Current			0.6	A
Operating Temperature			-5~+65	°C
Storage Temperature Range			-40~+85	°C
Package Dimension			50*100*18	mm
Fiber Type			900um	
Connector			Customize	

Electrical PIN Assignments

Customized