SINGLE CHANNEL INTEGRATED WDM MONITORS

IWMS Series

Features

- Wide Operating Wavelength Range
- Low Insertion Loss and PDL
- Low Dark Current
- High Temperature Stability

Applications

- DWDM Channel Monitoring
- Optical Network Switch/ Protection Monitoring
- Re-configurable Optical Add/drop Multiplexers
- Gain/Attenuation Monitoring in Amplifier Systems

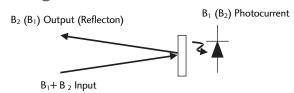
Single Channel Integrated WDM Monitors

Oplink's single channel Integrated WDM Monitor (IWMS) is acompact, WDM power monitoring device. It allows power monitoring at one or more wavelengths while transmitting all other wavelengths.

The IWMS integrates the functionality of a WDMfilter and a photodiode while delivering low insertionloss and low dark current with high temperaturestability over a wide wavelength range. It increasesmodule design flexibility and efficiency byfacilitating fiber management. It is compact and easyto mount on a PCB board for module and system use. Applications include DWDM channel power monitoring, optical network switching/protection monitoring, re-configurable optical add/dropmultiplexers, and gain/attenuation monitoring in amplifier systems.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.

Functional Diagram



Performance Specifications

	Min	Typical	Max	Units
		1260 ~ 1360		nm
	1525	~ 1570 or 1570 ~	1620	nm
d Signal ¹			0.6	dB
		0.03	0.05	dB
	15			dB
	35			dB
	40			dB
	0.7			A/W
	-20		10	dBm
PD Bandwidth =0.5G			10	nA
PD Bandwidth = 1.0G			5	nA
PD Bandwidth =0.5G			20	pF
PD Bandwidth = 1.0G			5	pF
	-5		70	°C
	-40		85	°C
			260	°C
		SMF-28		
Standard		ø 5.6 x 27.0		mm
Miniature		ø 3.3 x L ²		mm
	PD Bandwidth =0.5G PD Bandwidth =1.0G PD Bandwidth =0.5G PD Bandwidth =1.0G	1525 Signal	1260 ~ 1360 1260 ~ 1360 1525 ~ 1570 or 1570 ~ 1 Signal 0.03 15 35 40 0.7 -20 PD Bandwidth = 0.5G PD Bandwidth = 1.0G PD Bandwidth = 1.0G PD Bandwidth = 1.0G PD Bandwidth = 1.0G SMF-28 Standard \$ 5.6 \times 27.0	1260 ~ 1360 1525 ~ 1570 or 1570 ~ 1620 15gnal 0.6 0.03 0.05 15 0.6 0.03 0.05 15 0.7 0.7 0.7 0.7 0.7 0.7 0.9



2. Bare fiber L=17mm; With 900 μm loose tube L =22 mm



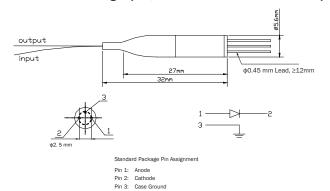




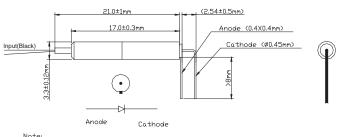
IWMS SERIES

Mechanical Drawing / Package Dimensions (dimension in mm)

Standard Package (P1, Bare Fiber or Loose Tube)

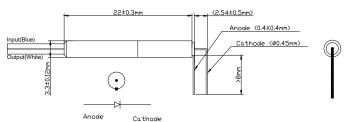


Miniature Package (P4, Bare Fiber)



Note: Anode is connected to the metal housing.

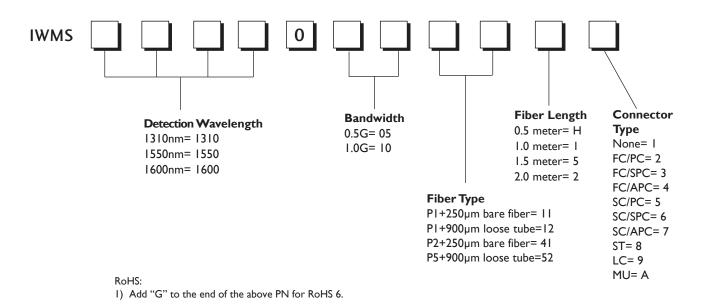
Miniature Package (P5, Loose Tube)



Note: Anode is connected to the metal housing.

Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.



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