INTEGRATED TAP MONITOR ARRAYS

ITMA Series

Product Description

Oplink's Integrated TAP Monitor Array (ITMA) is a compact, multi-channel powermonitoring device. It increases module design flexibility and efficiency by significantly reducing the number of assembly components and facilitating fiber management.

ITMA integrates the functionality of an optical coupler and a photodiode while delivering low insertion loss and low dark current with high temperature stability over a wide operating wavelength range.

Easily mounted on a PCB, Oplink's standard 12/14-pin package provides power monitoring for up to ten channels. Applications include DWDM channel power monitoring, optical network switching/protection monitoring, re-configurable optical add/drop multiplexers, 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.



Performance Specification

Parameters			Specification		Unit	
Operating Wavelength Range			1260 ~ 1360	1520~1620	nm	
Through	Insertion Loss (@λοp, Top, All SOP, Exclude Connectors)		2%	< 0.4		
			5%	< 0	< 0.6	
			10%	< 0).9	1
	Polarization Dependent Loss			< 0.05		dB
	Return Loss			> 45		dB
	Responsivity (Relative to Nominal Power at Input Port)		2%	10 ~ 23	14 ~ 26	mA/W
			5%	26 ~ 59	36 ~ 65	
Tapped Monitoring			10%	52 ~ 110	70 ~ 120	
	Responsivity Temperature Dependence (@1310nm or 1550nm)		< 0.3		dB	
	Responsivity Polarization Dependence			< 0.1		dB
PD	PD Dark Current 0.5G Bandwidt		th	< 10		nA
	(@ -5V bias, 70°C)	2.0G Bandwidth		< 2.5		
	Reverse Voltage			< 20		V
	Forward Current			< 10		mA
Conditions	Input Optical Power		2%	< 21		dBm
			5%	< 16		
			10%	<12]
	Operating Temperature Range (<85%RH, Non-condensing)			-5	+70	°C
	Storage Temperature Range (<85%RH, Non-condensing)			-40	+85	°C
Fiber Type			Corning SMF-28			

* Excluding connectors

** The maximum IL is under all states of polarization and within the full operating temperature and wavelength ranges specified



Features

- Standard, 12/14-pin Package Easily Mounted on a PCB
- 4, 8 and 10 Channel Configurations
- Wide Operating Wavelength Range
- Various Tap Ratio Available
- 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
- EDFAs and Raman Amplifiers



ITMA SERIES

Mechanical Drawing / Package Dimensions (dimension in mm)

2) 8-ch ITMA

32.0

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4-ø3.0

-27.94

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1.05

-0.25 TYP

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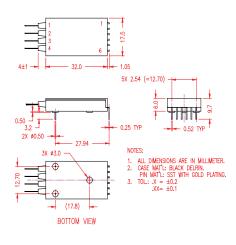
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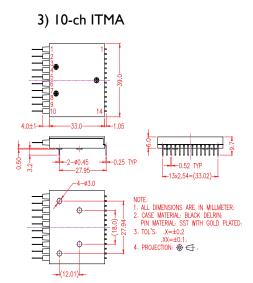
 $XX = \pm 0$ 4. PROJECTION: ()

I) 4-ch ITMA



Electrical Pin Assignment					
Pin#: Common Cathode Assignment		Common Anode Assignment			
Pin I:	Common Cathode for Ch1 & 2	Common Anode for Ch1 & 2			
Pin2:	Anode Ch1	Cathode Ch1			
Pin3:	Anode Ch2	Cathode Ch2			
Pin4:	Common Cathode for Ch3 & 4	Common Anode for Ch3 & 4			
Pin5:	Anode Ch3	Cathode Ch3			
Pin6:	Anode Ch4	Cathode Ch4			

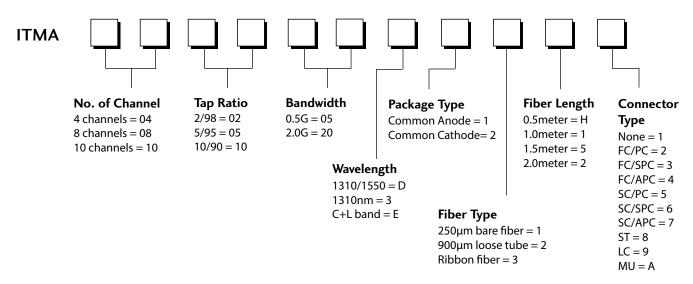
Electrical Pin Assignment					
Pin#:	Common Cathode Assignment	Common Anode Assignment			
Pin I :	Common Cathode for Ch1 & 2	Common Anode for Ch1 & 2			
Pin2:	Anode Ch1	Cathode Ch1			
Pin3:	Anode Ch2	Cathode Ch2			
Pin4:	Common Cathode for Ch3 & 4	Common Anode for Ch3 & 4			
Pin5:	Anode Ch3	Cathode Ch3			
Pin6:	Anode Ch4	Cathode Ch4			
Pin7:	Anode Ch5	Cathode Ch5			
Pin8:	Common Cathode for Ch5 & 6	Common Anode for Ch5 & 6			
Pin9:	Anode Ch6	Cathode Ch6			
Pin I 0:	Anode Ch7	Cathode Ch7			
Pin I I :	Common Cathode for Ch7 & 8	Common Anode for Ch7 & 8			
Pin I 2.	Anoda Ch8	Cathode Ch8			



Electrical Pin Assignment				
Pin#: Common Cathode Assignment		Common Anode Assignment		
Pin I:	Common Cathode for Ch1 to 4	Common Anode for Ch1 to 4		
Pin2:	Anode Ch I	Cathode Ch1		
Pin3:	Anode Ch2	Cathode Ch2		
Pin4:	Anode Ch3	Cathode Ch3		
Pin5:	Anode Ch4	Cathode Ch4		
Pin6:	Anode Ch5	Cathode Ch5		
Pin7:	Common Cathode for Ch5 to 8	Common Anode for Ch5 to 8		
Pin8:	Anode Ch6	Cathode Ch6		
Pin9:	Anode Ch7	Cathode Ch7		
Pin I 0:	Anode Ch8	Cathode Ch8		
Pin II:	Anode Ch9	Cathode Ch9		
Pin I 2:	Common Cathode for Ch9 & 10	Common Anode for Ch9 & 10		
Pin I 3:	Anode Ch10	Cathode Ch10		
Pin 14:	Not connected	Not connected		

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.



RoHS:

1. ITMA is RoHS 5 compliant (RoHS permitted Lead in solder exemption is applied).

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