Integrated TAP Monitor Arrays w/ I²C Interface

Product Description

Oplink's Integrated Tap Monitor Array (ITMA) w/ I²C interface is a compact, multi-channel power-monitoring module. Functions of power reading, alarm and threshold setting are provided at firmware command level thru I²C interface. There is no hardware design, firmware programming or PD calibration work for user anymore, which greatly relieves user from heavy work load of design and manufacturing and provides great cost saving.

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			1525 ~ 1610		nm
Through	Insertion Loss	2%	≤ 0.4		dB
		5%	≤ 0.6		
		10%	≤ 0.9		
	Polarization Dependent Loss		≤ 0.1		dB
	Return Loss		> 45		dB
Tapped Monitoring	Power monitoring accuracy (@25℃ 1550nm, normal input power)		± 0.5		dB
Conditions	Input Optical Power		- 30 to +10		dBm
	Operating Temperature Range (<90%RH, Non-condensing)		-5	+70	℃
	Storage Temperature Range (<90%RH, Non-condensing)		-40	+85	℃
Fiber Type			SMF-28		

Notes :
* Within λOp, TOp, All SOP, exclude connector

Features

◈ I²C interface
◈ Wide dynamic range
◈ High accuracy
◈ Low IL and wide wavelength range

Applications

◈ EDFA and Raman amplifiers
◈ Optical protection
◈ ROADM
◈ Instrumentation

Electrical Pin Out

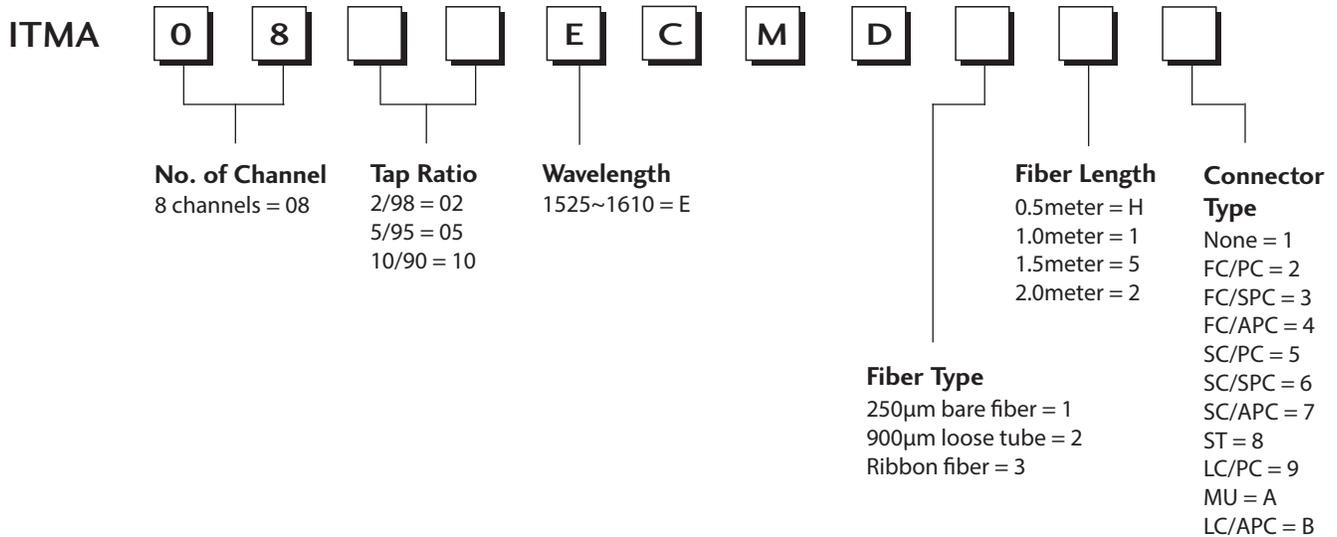| Pin #	I/O	Name	Description
1	I	VCC	4.75~5.25V, Power(max 0.3A)
2	I	GND	Ground
3	I	A0	Slave I²C address offset 0 (3.3V LVTTL)
4	I	A1	Slave I²C address offset 1 (3.3V LVTTL)
5	I	A2	Slave I²C address offset 2 (3.3V LVTTL)
6	I	A3	Slave I²C address offset 3 (3.3V LVTTL)
7	I	A4	Slave I²C address offset 4 (3.3V LVTTL)
8	I/O	SCL	I²C Clock (LVTTL), with no Pull-up & Pull-down Resistor in module
9	I/O	SDA	I²C Data (LVTTL), with no Pull-up & Pull-down Resistor in module
10	I	RESET	HW Reset, Active low(LVTTL)

Mechanical Drawing / Package Dimensions   (dimension in mm)
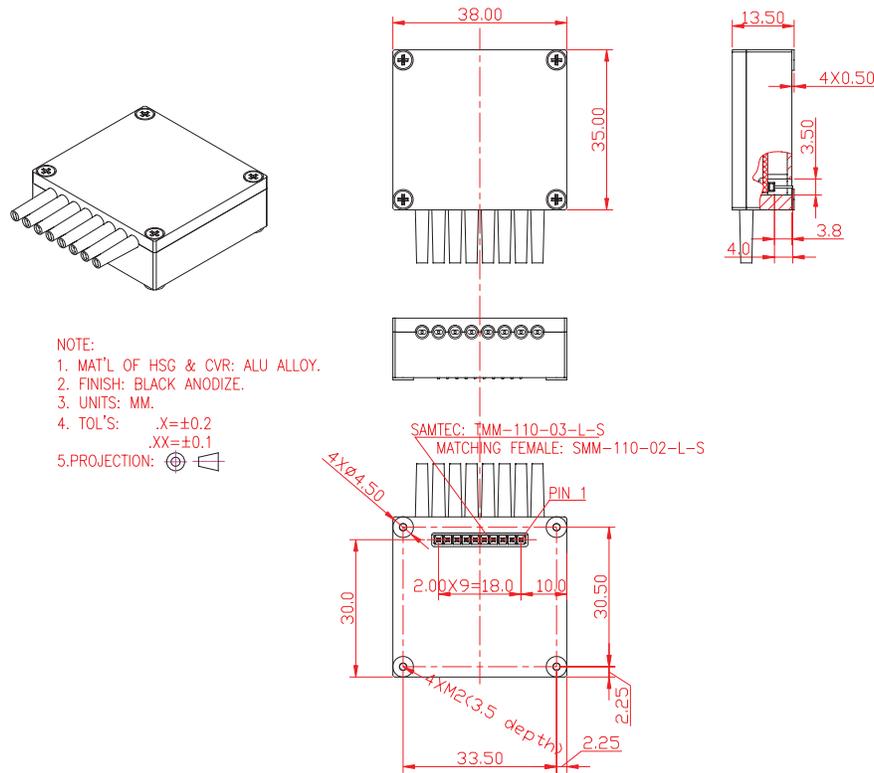
NOTE:
1. MAT'L OF HSG & CVR: ALU ALLOY.
2. FINISH: BLACK ANODIZE.
3. UNITS: MM.
4. TOL'S: .X=±0.2
             .XX=±0.1
5. PROJECTION:

SAMTEC: TMM-110-03-L-S
MATCHING FEMALE: SMM-110-02-L-S

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.

ITMA 0 8 □ □ E C M D □ □ □

No. of Channel
8 channels = 08

Tap Ratio
2/98 = 02
5/95 = 05
10/90 = 10

Wavelength
1525~1610 = E

Fiber Type
250µm bare fiber = 1
900µm loose tube = 2
Ribbon fiber = 3

Fiber Length
0.5meter = H
1.0meter = 1
1.5meter = 5
2.0meter = 2

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/PC = 9
MU = A
LC/APC = B

* The tolerance of fiber length is +/-0.1m.
* 1 meter is standard. The lead time for special fiber length will be longer.

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