

ECO SERIES UNIDIRECTIONAL SINGLE CHANNEL TAP MONITOR

UTMS Eco Series

Key Features

- ◆ Detect optical signal from one direction
- ◆ Wide band, low IL, low dark current
- ◆ Hermetically sealed photodiode
- ◆ RoHS 6

Applications

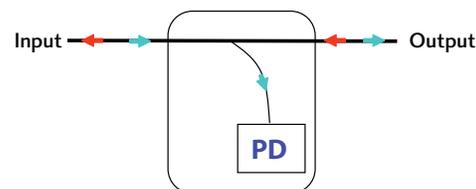
- ◆ EDFAs and Raman Amplifiers
- ◆ Optical Protection
- ◆ ROADM
- ◆ Instrumentation



Performance Specification

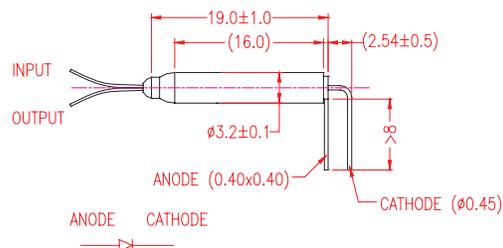
Parameters	Specification		Unit
Operating Wavelength Range	1260~1360	1510~1610	nm
Through	Insertion Loss	2%	≤ 0.5
	(@ λ _{op} , T _{op} , All SOP, exclude connector)	5%	≤ 0.7
		10%	≤ 1.0
	Polarization Dependent Loss		≤ 0.05
			dB
			dB
Tapped Monitoring	Responsivity	2%	10~23
	(relative to nominal power at input port)	5%	26~59
		10%	52~110
			14~25
			35~65
			70~120
			mA/W
			dB
			dB
PD	PD Dark Current (@ 70°C, -5V bias)		≤ 5
	Bandwidth (50 ohm, 5V, -3dB)		≥ 1
	Reverse Voltage		≤ 20
	Forward Current		≤ 5
			nA
			V
			mA
Conditions	Input Optical Power	2%	≤ 21
		5%	≤ 16
		10%	≤ 12
			dBm
			°C
			°C
Fiber Type	Corning SMF-28		

Functional Diagram



Dimensions

P3 Package with Bare Fiber :

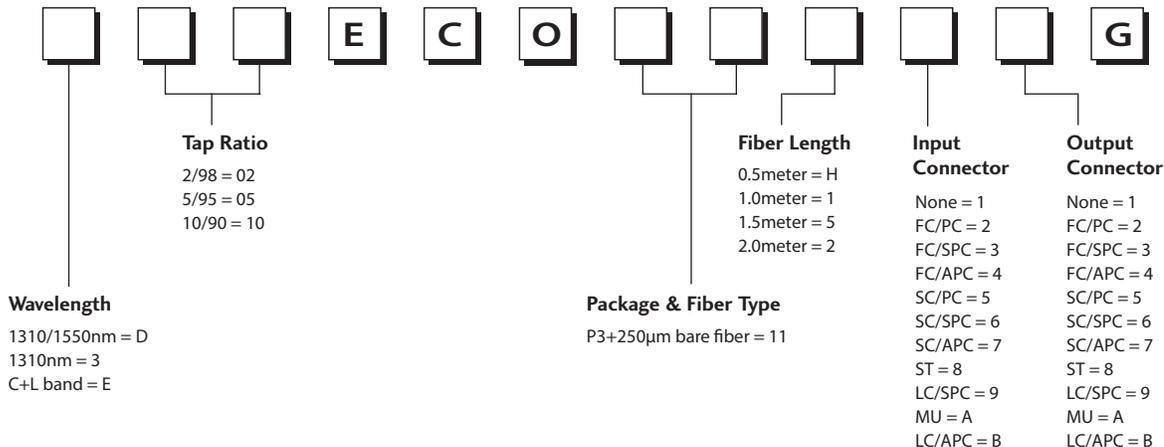


Notes: ⁽¹⁾ Directivity is defined as $-10 \log(\mathfrak{R}_{OUT \rightarrow PD} / \mathfrak{R}_{IN \rightarrow PD})$ where \mathfrak{R} stands for responsivity.

*All spec excluding connectors. The maximum IL is under all states of polarization and within the full operating temperature and wavelength ranges specified.

Ordering Information

UTMS



S0459 - R01 (web) 20140814

Mouser Electronics

Authorized Distributor

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Molex:

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