

High Power Polarization Maintaining Tap Isolator (HPMTI Series)

Description

Rev 11

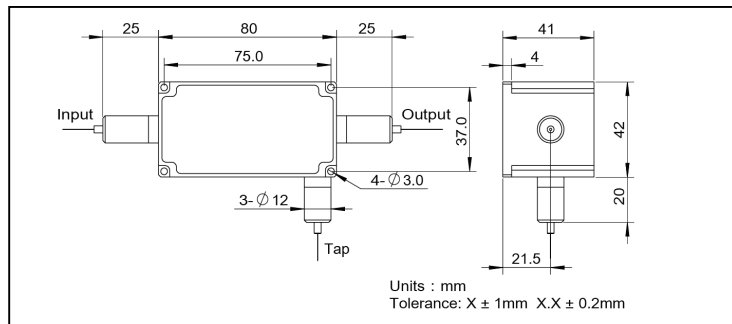
The High Power Polarization Maintaining Tap Isolator is characterized with low insertion loss, high isolation, high power handling, high return loss, excellent environmental stability and reliability. It is ideal for fiber laser and instrumentation applications.

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1030, 1064
Operating Wavelength Range	nm	$\lambda_c \pm 10$
Tap Ratio (Tap IL = $-10 \cdot \log(\text{Tap Ratio}) + \text{E.L}$)	%	$0.1 \pm 0.05, 1 \pm 0.5, 2 \pm 0.8, 5 \pm 1.0, 10 \pm 2.0$
Min. Extinction Ratio	dB	20
Min. Isolation, $\lambda_c, 23^\circ\text{C}$, all polarization states	dB	25
Typ. Excess Loss, 23°C	dB	0.8
Max. Excess Loss, 23°C	dB	1
Min. Return Loss	dB	45/45
Max. Average Optical Power	W	20
Max. Peak Power for ns pulse	kW	10
Max. Tensile Load	N	5
Fiber Type	-	specified by ordering info
Operating Temperature	$^\circ\text{C}$	+ 10 to + 50
Storage Temperature	$^\circ\text{C}$	0 to + 60

'Output IL= $-10 \cdot \log(1 - \text{Tap Ratio}) + \text{E.L}$

Package Dimensions



Ordering Information

HPMTI-①①-②②-③③-④④-⑤⑤-⑥⑥-⑦⑦-⑧⑧-⑨⑨-⑩⑩

①①: Wavelength	②②: Handling Power	③③: Tap Ratio	④④: Connector Type	⑤⑤: Fiber Jacket
03 - 1030 nm	15 - 15 W	0.1 - 1/999 05 - 5/95	N - None	B - Bare Fiber
06 - 1064 nm	20 - 20 W	01 - 1/99 10 - 10/90		L - 900 μm Loose Tube
SS - Specify	SS - Specify	02 - 2/98 SS - Specify		S - Specify
⑥⑥: Fiber Length	⑦⑦: Working Axis	⑧⑧: Fiber Type for I&O	⑨⑨: Fiber Type for T	⑩⑩: Power Type
Q - 0.75 m	F - Fast Axis Blocked	1-PM 980 Fiber	1-PM 980 Fiber	P - Pulse Application
S - Specify		2-Nufern FUD-3460	2-Nufern FUD-3460	C - Continuous Wave
		3-Nufern PLMA-GDF-20/130	3-MMF 105/125 Fiber	
		S-Specify	S-Specify	