

HYBRID ISOLATOR: TAP + WDM + ISOLATOR (1480/1550, 1480/1590nm)

Specifications

Contact Ascentta with your custom specification needs.

Parameter				Unit	Single Stage	Dual Stage	
Signal Channel	Wavelength			nm	1550±20, or 1590±20		
	Isolation (All SOP)	$(\lambda_c, 23^\circ\text{C})$ (23°C)	Typ.	dB	40	50	
			Min	dB	30	44	
	Channel Isolation (23°C, All SOP)			Min	dB	55	
	Insertion Loss (All SOP)	(23°C)	1%	Typ.	dB	0.7	0.8
			3%	Typ.	dB	0.8	0.9
			5%	Typ.	dB	0.9	1.0
		$(-5 \text{ to } 70^\circ\text{C})$	1%	Max	dB	0.9	1.0
			3%	Max	dB	1.0	1.1
			5%	Max	dB	1.1	1.2
Wavelength			nm	1480±20			
Pump Channel	Channel Isolation (23°C, All SOP)			Min	dB	14	
	Insertion Loss (All SOP)	(23°C) $(-5 \text{ to } 70^\circ\text{C})$	Typ.	dB	0.4		
Max			dB	0.6			
Tap Port (Forward Pump)	Insertion Loss (-5 to 70°C, All SOP)			1%	dB	19~21	
				3%	dB	14~16	
				5%	dB	12~14	
Ripple			Max	dB	0.2		
PDL			Max	dB	0.1		
PMD			Max	ps	0.1/0.25	0.1	
Return Loss			Min	dB	55		
Directivity			Min	dB	60		
Optical Power Handling			mW	300			
Package Dimension			mm	Φ5.5 x L35			
Operation Temperature			°C	-5 to 70			
Storage Temperature			°C	-40 to 85			

* The above specifications are for parts without connectors. Adding connectors can affect the IL, RL, & PDL.

* Max PMD is 0.25 for non-compensated single-stage parts.

* SOP=State Of Polarization

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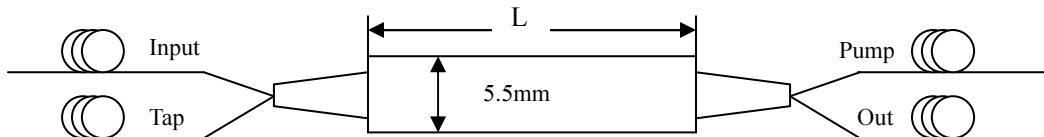
Ordering Information

Contact Ascentta with your custom configuration needs.

TIWDM	Wavelengths	Stages	Tap Ratio	Pump Type	Fiber Type	Fiber Length	Connector
TIWDM	95=980/1550nm	S=Single stage	01=1%	F=Forward Pump	B=SMF-28, 250um L= SMF-28, 900um	10=1.0m	NE=None FA=FC/APC FC=FC/PC SA=SC/APC SC=SC/PC ST=ST/PC LA=LC/APC LC=LC/PC X=Others
	99=980/1590nm	D=Dual stage	02=2%			15=1.5m	
	45=1480/1550nm		03=3%			20=2.0m	
	49=1480/1590nm		05=5%			30=3.0m	
	X=Others		X=Others		X=Others	X=Others	

Package Dimensions

Forward Pump



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