

HYBRID ISOLATOR: TAP + ISOLATOR + WDM (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)	$(\lambda_c, 23^\circ\text{C})$	Typ.	dB	40	50	
			Min	dB	30	44	
	Channel Isolation (23°C, All SOP)			Min	dB	55	
	Insertion Loss (All SOP)	(23°C)	99%	Typ.	dB	0.7	0.8
			97%	Typ.	dB	0.8	0.9
			95%	Typ.	dB	0.9	1.0
			99%	Max	dB	0.9	1.0
			97%	Max	dB	1.0	1.1
			95%	Max	dB	1.1	1.2
Pump Channel	Wavelength			nm	1480±20		
	Channel Isolation (23°C, All SOP)			Min	dB	14	
	Insertion Loss (All SOP)	(23°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	0.5			
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 L50		
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

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TIWDM	Wavelengths	Stages	Tap Ratio	Pump Type	Fiber Type	Fiber Length	Connector
TIWDM	45=1480/1550nm 49=1480/1590nm X=Others	S=Single stage D=Dual stage	01=1% 02=2% 03=3% 05=5% X=Others	F=Forward Pump	B=SMF-28, 250um L= SMF-28, 900um X=Others	10=1.0m 15=1.5m 20=2.0m 30=3.0m X=Others	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

Package Dimensions

Forward Pump

