

Hybrid Isolator: Tap + Isolator + WDM (980/1550, 980/1590nm)

Specifications

Contact Hengyan Photonics with your custom specification needs.

Parameter					Unit	Single Stage	Dual Stage
Signal Channel	Wavelength			nm	1550±20, or 1590±20		
	Isolation (All SOP)	(λc, 23℃)	Typ.	dB	40	50	
		(λc±20 23℃)	Min	dB	30	44	
	Channel Isolation (23℃, All SOP)			Min	dB	55	
	Insertion Loss (λc 23℃, All SOP)	99%	Typ.	dB	0.8	0.9	
		97%	Typ.	dB	0.9	1.0	
		95%	Typ.	dB	1.0	1.1	
		99%	Max	dB	1.1	1.2	
		97%	Max	dB	1.2	1.3	
95%		Max	dB	1.3	1.4		
Pump Channel	Wavelength			nm	980±15		
	Channel Isolation (λc 23℃, All SOP)		Min	dB	14		
	Insertion Loss (λc 23℃, All SOP)		Typ.	dB	0.4		
			Max	dB	0.6		
Tap port (Forward Pump)	Insertion Loss (λc -5 to 70℃, 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	50		
Optical Power Handling				mw	300		
Package Dimension				mm	Φ5.5 x L50		
Operation Temperature				℃	-5 to 70		
Storage Temperature				℃	-40 to 85		

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

* SOP=State Of Polarization

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

HYBRID ISOLATOR: TAP + ISOLATOR + WDM (980/1550, 980/1590nm)

Ordering Information

Contact Hengyan Photonics with your custom configuration needs.

TIWDM	Wavelengths	Stage	Tap Ratio	Pump Type	Fiber Type	Fiber Length	Connector
TIWDM	95=980/1550nm 99=980/1590nm 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

