

## 980/1053nm PM WDM/Isolator Hybrid for Pulse Power

### FEATURES

- High Isolation
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- Low Profile Packaging

### APPLICATIONS

- Broadband Systems
- Optical Amplifying Systems
- Telecommunication Networks
- Metro Networks
- CATV Networks

### SPECIFICATIONS

Parameters	Unit	Single Stage	Dual Stage
Signal Wavelength Range $\lambda_1$	nm	1053+/-10	
Pump Wavelength Range $\lambda_2$	nm	980+/-10	
Insertion Loss@23°C	Signal Channel@ $\lambda_1$	dB	≤3.6
	Pump Channel@ $\lambda_2$	dB	≤0.8
Signal Isolation (23°C, All SOP)	dB	≥25	≥45
Wavelength Isolation	Signal Channel@ $\lambda_2$	dB	≥25
	Pump Channel@ $\lambda_1$	dB	≥12
Optical Return Loss	dB	≥45	
Extinction Ratio	dB	≥18	
Working Mode	S Type	-	Can only work in Slow Axis
	F Type	-	Can work both in Slow Axis and Fast Axis
Fiber Type	Common and Signal Port	-	PM980 Fiber, PM1060L Fiber (E) or PM1060L-FA Fiber (L) 10/125um PMDC Fiber (O), 15/130um PMDC Fiber (W) 20/130um PMDC Fiber (Q) or 25/250um PMDC Fiber (R)
	Pump Port (980nm)	-	Same Fiber, Corr. SM Fiber, PM980 Fiber or HI1060 Fiber
Fiber Tensile Load	N	5	
Max. Signal Average Optical Power	mW	200	
Max. Pump Average Optical Power	W	0.3, 0.5, 1, 2, 3, 5, 10	
Max. Peak Power for pulse	kW	0.1, 1, 2, 3, 5, 10, 15, 20	
Operating Temperature	°C	0~50	
Storage Temperature	°C	-40~85	
Package Dimension	Stainless Steel Tube (SST)	mm	(Ø)5.5x35
	Metal Box	mm	(L)120x(W)12x(H)10

- Note:**
1. Specifications are for device without connectors; Specifications may change without notice.
  2. To add connectors, IL is 0.5dB higher, RL is 5dB lower, ER is 2dB Lower, Connector key is aligned to slow axis.
  3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
  4. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.

### ORDERING INFORMATION (PN)

Stage	Pump Type	Work Mode	Pump Fiber	Average Power	Peak Power	Pump Power	Package	Fiber Type	Fiber Sleeve	Fiber Length	Connector Type
S=Single	F=Forward	S=S Type	Y=Same Fiber	02=200mW	01=100W	05=500mW	M=Metal Box	2=PM980Fiber	B= Bare fiber	05=0.5m	N=Without Connector
D=Dual	B=Backward	F=F Type	P=PM980 Fiber		1=1kW	1=W	Blank for SST	E=PM1060L Fiber	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
			H=HI1060 Fiber		10=10kW	10=W		Q=20/130 PMDC Fiber	2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
			S=Corr. SM Fiber		20=20kW	Blank for 300mW		R=25/250 PMDC Fiber	3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector

