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Corporation Ltd

PM Wavelength Division Multiplexer

Polarization Maintaining Wavelength Division Multiplexer (PMWDM) using Thin Film Filters technology (TFF) combine light with different wavelengths into a fiber or separate an optical signal into two fibers with special feature - maintaining polarization. This device provides low insertion loss and high return loss with high polarization extinction ratio.



Types

- Fused WDM
- Thin Film Filter WDM
- MultiMode WDM
- Polarization Maintaining WDM

Applications

- High Speed DWDM Systems
- Erbium-Doped Fiber Amplifiers
- CATV

Features

- Low Insertion Loss
- High Return Loss
- High Polarization Extinction Ratio
- Environmentally Stable



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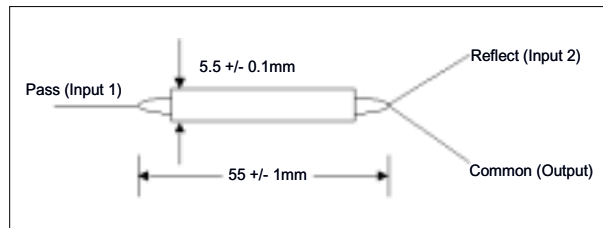
SPECIFICATIONS

1x2 Polarization Maintaining WDM (980/1064nm)

Parameter		Values	Units
Passband	Wavelength Range	980 +/-10	nm
	IL over Pass Wavelength (input 1 to output)	<1.0	dB
Reflection Band	Wavelength Range	1064 +/-10	nm
	IL over Reflection Band (input 2 to output)	<0.7	dB
	Reflection Band Isolation@Pass Band Wavelength	>12	dB
Variation Insertion Loss		<0.3	dB
Extinct Ratio		>20	dB
Signal Blocking (Input 2 to Input 1, 1064nm)		> 55 (Typ. 60)	dB
Optical Return Loss		>50	dB
Tensile Load		5	N
Max. Optical Power (Continuous Wave)		300	mW
Fiber Type		PM 980 Panda fiber for all ports	--
Fiber Length		0.75	m
Operating Temperature		-5 to +70	°C
Storage Temperature		-40 to +85	°C

*Above specifications are for device without connectors.

*If added with connectors, the IL will be 0.3dB higher, ER will be 2dB lower and RL will be 5dB lower.

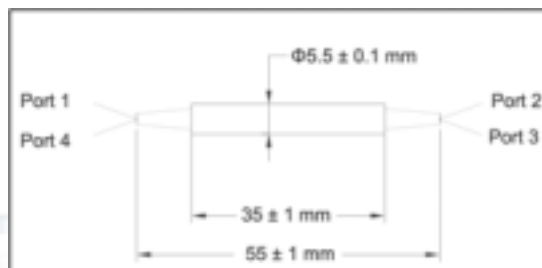


2x2 Polarization Maintaining WDM (980/1064nm)

Parameter		Values	Units
Passband	Wavelength Range	980 +/-10	nm
	Typ. Insertion Loss (Port1-Port3)	1.2	dB
	Max. Insertion Loss	1.4	dB
	Typ. Isolation	30	dB
	Min. Isolation	25	dB
Reflection Band	Wavelength Range	1060 +/-30	nm
	Typ. Insertion Loss (Port1-Port4; Port2-Port3)	0.6	dB
	Max. Insertion Loss	0.7	dB
	Typ. Isolation	15	dB
	Min. Isolation	12	dB
Min. Return Loss		50	dB
Min. Extinction Ratio		18	dB
Max. Optical Power (Continuous Wave)		300	mW
Max. Tensile Load		5	N
Fiber Type		PM 980 Panda Fiber	--
Operating Temperature		-5 to +70	°C
Storage Temperature		-40 to +85	°C

*IL is 0.5dB higher, RL is 5dB lower, and ER is 2dB lower for each connector added.

*Connector key is aligned to slow axis.



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ORDERING CODES

OLWDM - P - [] - [] - []

Wavelength	Code
980Pass/1064Reflection	9810

Fiber Type	Code
250um Panda Fiber	25
900um loose tube Panda Fiber	90
Others	XX

Connector Type	Code
No Connector	NC
FC/UPC	FU
SC/UPC	SU
FC/APC	FA
SC/APC	SA
Others	XX