1x2 and 2x2 PM Fused Coupler

FEATURES

- Low Excess Loss and Insertion Loss
- High Power Handling
- High Stability and Reliability
- High Extinction Ratio
- Operating On Both Fast and Slow Axes

APPLICATION

- Power Monitoring
- Coherent Communication
- Fiber Laser and Amplifier
- Fiber Gyroscope
- Fiber Sensor
- Instrumentation

PERFORMANCE SPECIFICATIONS

Parameter		Specifications					
Operating Wavelength		780±15, 850±15nm		980±15, 1064±15nm		1310±15, 1550±15nm	
Grade		P	A	P	A	P	A
Insertion Loss (Max)	Coupling ratio: 50/50%	3.6/3.6dB	3.8/3.8dB	3.6/3.6dB	3.8/3.8dB	3.6/3.6dB	3.8/3.8dB
	40/60%	5.2/3.1dB	5.4/3.3dB	5.2/3.1dB	5.4/3.3dB	5.2/3.1dB	5.4/3.3dB
	30/70%	5.8/2.0dB	6.1/2.1dB	5.8/2.0dB	6.1/2.1dB	5.8/2.0dB	6.1/2.1dB
	20/80%	8.0/1.5dB	8.2/1.7dB	8.0/1.5dB	8.2/1.7dB	8.0/1.5dB	8.2/1.7dB
	10/90%	11.6/1.2dB	11.8/1.4dB	11.6/1.20dB	11.8/1.4dB	11.6/1.20dB	11.8/1.4dB
	5/95%	14.8/0.80dB	15.0/1.0dB	14.8/0.80dB	15.0/1.0dB	14.8/0.80dB	15.0/1.0dB
	2/98%	18.4/0.40dB	18.9/0.50dB	18.4/0.40dB	18.9/0.50dB	18.4/0.40dB	18.9/0.50dB
	1/99%	22.0/0.35dB	22.5/0.40dB	22.0/0.35dB	22.5/0.40dB	22.0/0.35dB	22.5/0.40dB
Excess loss (Max)		0.80dB	1.0dB	0.80dB	1.0dB	0.40dB	0.60dB
ER* (High Ratio Port)		20dB	18dB	20dB	18dB	20dB	18dB
ER* (Low Ratio Port)		16dB	14dB	16dB	14dB	16dB	14dB
CR Tolerance @ λc		50/50 : ±3.0%; 40/60 :±2.5%; 30/70 : ±2.0%; 20/80 : ±2.0%; 10/90 : ±1.0%; 5/95 : ±0.50%; 2/98 : ±0.30%; 1/99 : ±0.20%					
Thermal stability		≤ 0.005dB/°C					
Return loss		≥ 55dB					
Directivity		≥ 50dB					
Optical power (CW)		≤ 500mW					
Operating Temperature		- 20 to +75°C (- 40 to +85°C Available upon request)					
Storage Temperature		- 40 to +85°C					
Package Dimensions		A= Standard, Φ3.0xL54 for 250um; Φ3.0xL60 for 900um					
		M=Compact, Φ3.0xL35 for 250um; Φ3.0xL54 for 900um					

Note:

*ER: Extinction ratio.
IL is 0.3dB higher, RL 5dB lower and ER 2dB lower for each connector added.
Connector key is aligned to slow axis.

All values referenced are without connector.

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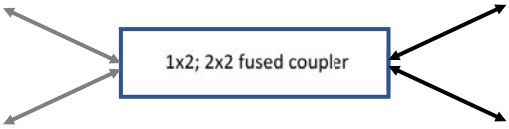
MECHANICAL DIMENSIONS

A Package

M Package

PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Grade	Operating Wavelength	Coupling Ratio	Port	Package	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector
PMS=Standard	P=P grade A=A grade	78=780nm 85=850nm 98=980nm 06=1064nm 31=1310nm 55=1550nm SS=Custom	50 = 50:50 40=40:60 30=30:70 20=20:80 10=10:90 05 =5:95 02=2:98 01=1:99	102=1x2 202=2x2	A= A package M= M package	J=PM780 K=PM850 L=PM980 M=PM1310 N=PM1550	1=Bare fiber 2=900um loose tube	07=0.75m 10=1.0m · · ·	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC