1x2 and 2x2 Single mode Fused Coupler (850/980nm)

FEATURES

Low Excess Loss
Various Coupling Ratio
Compact Size

APPLICATION

Long-haul Telecommunications
CATV Systems & Fiberoptic Sensors
Local Area Network

PERFORMANCE SPECIFICATIONS

Parameter		Specifications	
Operating Wavelength		850±10, 980±10nm	
Grade		P	A
Insertion Loss (Max)	Coupling ratio: 50/50%	3.5/3.5dB	3.6/3.6dB
	40/60%	4.6/2.6dB	4.8/2.8dB
	30/70%	5.7/1.9dB	5.9/2.1dB
	20/80%	7.4/1.4dB	7.6/1.6dB
	10/90%	11.0/0.70dB	11.2/0.90dB
	5/95%	14.0/0.50dB	14.2/0.60dB
	2/98%	18.0/0.40dB	18.2/0.50dB
	1/99%	21.0/0.35dB	21.0/0.40dB
Excess loss (Typ.)		0.10dB	0.20dB
Uniformity (50/50)		≤ 0.30dB	≤ 0.40dB
PDL* (High ratio port)		≤ 0.10dB	≤ 0.20dB
PDL* (Low ratio port)		≤ 0.15dB	≤ 0.20dB
Directivity		≥ 55dB	
Fiber Type		Hi780 (850nm) Hi980/Hi1060 (980nm)	
Operating Temperature		- 20 to +75°C (- 40 to +85°C Available upon request)	
Storage Temperature		- 40 to +85°C	
Package Dimensions		A= Standard, Φ3.0xL54mm for 250um fiber, Φ3.0xL60 for 900um fiber M=Compact, Φ3.0xL40, SS tube; C=98x14x8.5 (2&3 mm fiber jacket); S=89x51x9.2 (2&3 mm fiber jacket)	

Note:

*PDL: Polarization dependent loss

All values referenced are without connector.

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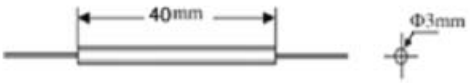
MECHANICAL DIMENSIONS

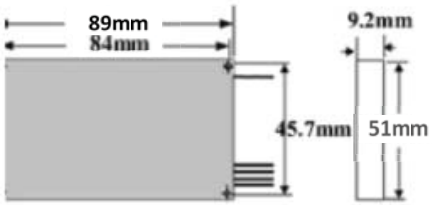
A Package

M Package

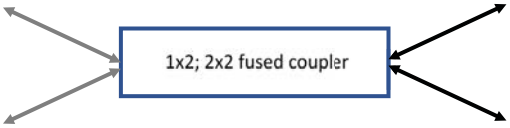


C Package

S Package



PORT CONFIGURATIONS



ORDERING INFORMATION

Type	Grade	Operating Wavelength	Coupling Ratio	Port	Package	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector
S=Standard	P=P grade A=A grade	85=850nm 98=980nm	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 C=C package S=S package	4=Hi780 5=Hi980 6=Hi1060 7=Hi1060 Flex	1=Bare fiber 2=900um loose tube 3=3mm jacket 4=2mm jacket 5=1.6mm jacket	05=0.5m 10=1.0m · · · 20=2.0m	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