



1x2 and 2x2 Single mode Fused Coupler

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		Standard 1310±10, 1480±10, 1550±10,1585±10nm, or Custom		Wideband 1310±40, 1550±40,1585±40nm, or Custom		Dual window wideband 1310/1550±40, 1310/1585±40nm, or Custom	
Grade		P	A	P	A	P	A
	Coupling ratio: 50/50%	3.3/3.3dB	3.5/3.5dB	3.3/3.3dB	3.5/3.5dB	3.5/3.5dB	3.8/3.8dB
Insertion Loss (Max)	40/60%	4.4/2.5dB	4.4/2.8dB	4.4/2.5dB	4.4/2.8dB	4.7/2.8dB	5.0/2.9dB
	30/70%	5.6/1.8dB	6.0/2.0dB	5.6/1.8dB	6.0/2.0dB	6.0/1.9dB	6.4/2.1dB
	20/80%	7.6/1.2dB	8.0/1.3dB	7.6/1.2dB	8.0/1.3dB	7.9/1.3dB	8.5/1.4dB
	10/90%	10.8/0.60dB	12.0/0.80dB	10.8/0.60dB	12.0/0.80dB	11.3/0.70dB	12.7/0.80dB
	5/95%	13.8/0.35dB	15.7/0.55dB	13.8/0.35dB	15.7/0.55dB	15.0/0.45dB	16.0/0.50dB
	2/98%	18.0/0.25dB	19.5/0.30dB	18.0/0.25dB	19.5/0.30dB	19.0/0.30dB	20.0/0.45dB
	1/99%	21.0/0.20dB	21.5/0.30dB	21.0/0.20dB	21.5/0.30dB	22.5/0.25dB	23.0/0.40dB
Excess loss (Typ.)		0.10dB	0.20dB	0.10dB	0.15dB	0.10dB	0.15dB
Uniformity (50/50)		≤ 0.30dB	≤ 0.40dB	≤ 0.40dB	≤ 0.50dB	≤ 0.70dB	≤ 1.0dB
PDL* (High ratio port)		≤ 0.10dB	≤ 0.20dB	≤ 0.10dB	≤ 0.15dB	≤ 0.10dB	≤ 0.15dB
PDL* (Low ratio port)		≤ 0.15dB	≤ 0.20dB	≤ 0.15dB	≤ 0.15dB	≤ 0.15dB	≤ 0.15dB
Directivity		≥ 55dB					
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; N=Mini, Φ3.0 x L35, 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.

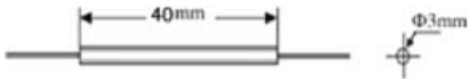
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MECHANICAL DIMENSIONS

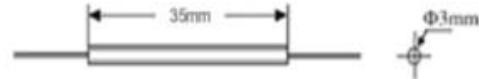
A Package



M Package



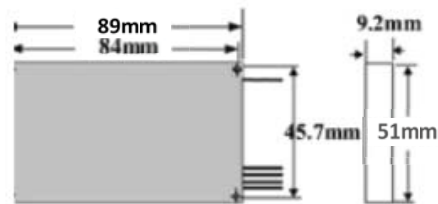
N Package



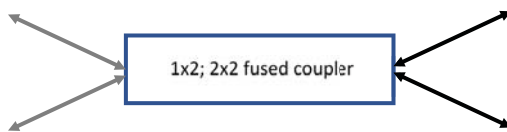
C Package



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	31=1310nm	50=50:50	102=1x2	A=A package	2=SMF-28 Ultra	1=Bare fiber	05=0.5m	0=None	0=None
W=Wideband	A=A grade	48=1480nm	40=40:60	202=2x2	M=M package	(G.657.A1)	2=900um	10=1.0m	1=FC/APC	1=FC/APC
		55=1550nm	30=30:70		N=N package		loose tube	·	2=FC/PC	2=FC/PC
		58=1585nm	20=20:80		C=C package		3=3mm jacket	·	3=SC/APC	3=SC/APC
		3155=1310/1550nm	10=10:90		S=S package		4=2mm jacket	·	4=SC/PC	4=SC/PC
		3158=1310/1585nm	05=5:95				5=1.6mm jacket	20=2.0m	5=ST	5=ST
			02=2:98						6=LC/UPC	6=LC/UPC
			01=1:99						7=LC/APC	7=LC/APC

*1=SMF-28(G.652) is available upon request.