Multimode Fused Coupler

FEATURES

Low Insertion loss
Wide Operating Wavelength
Compact Size
Excellent Environmental and Mechanical Stability

APPLICATION

Local Area Networks
CATV Systems
Subscriber Loop
Fiberoptic Instruments
Fiber Sensors

PERFORMANCE SPECIFICATIONS

Parameter	Specifications				
Operating Wavelength	850nm or 1310nm or 1550nm				
Port Configurations	1x2/2x2	1x2/2x2	1x3	1x4	1x8
Grade	P	A	P	P	P
Insertion Loss (50/125um)	≤ 3.5dB	≤ 3.7dB	≤ 6.0dB	≤ 7.2dB	≤ 10.5dB
Insertion Loss (62.5/125um)	≤4.0dB	≤4.2dB	≤ 6.5dB	≤ 7.6dB	≤ 11.0dB
Uniformity	≤ 0.60dB	≤ 0.80dB	≤ 1.2dB	≤ 1.2dB	≤ 2.0dB
Directivity	≥ 35dB				
Operating Temperature	- 20 to +75°C (- 40 to +85°C Available upon request)				
Storage Temperature	- 40 to +85°C				
Package Type	A, M and C		A and C	S and D	D
Package Dimensions (LxWxH)	A= Standard, Φ3.0xL54 (60 for 900um), SS tube				
	M=Compact, Φ3.0xL40, SS tube				
	C=98x14x8.5 Case				
	S=89x51x9.2 Case				
	D=120x80x11.6 Case				

Note:

Measured under the stable mode condition with LED light source (CPR < 12).
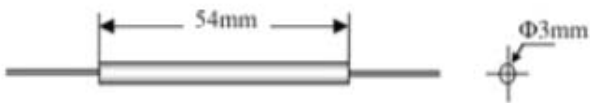
All values referenced are without connector.

UNBALANCE RATIO 1X2 INSERTION LOSS TABLE

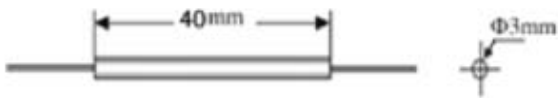| Coupling Ratio		5%/95%	10%/90%	20%/80%	30%/70%	40%/60%
Insertion Loss (dB)	Top Port	14.5	11.2	7.8	6.0	4.7
	Main Port	0.70	0.90	1.4	2.1	2.7

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MECHANICAL DIMENSIONS

A Package

M Package

C Package

S Package
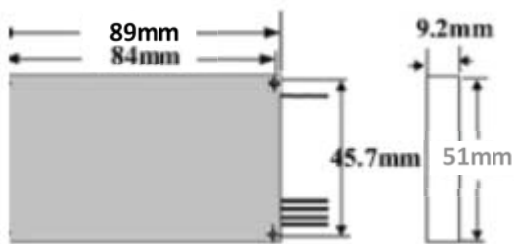
D Package
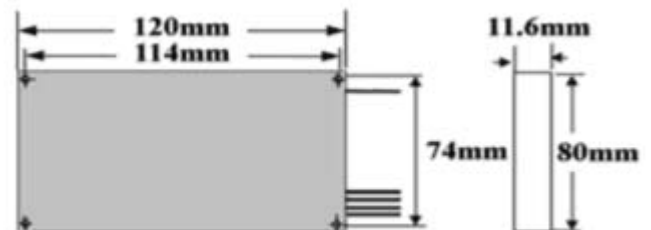
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CHANNEL CONFIGURATIONS

1x2; 2x2 fused coupler

1x3 fused coupler

1x4 fused coupler
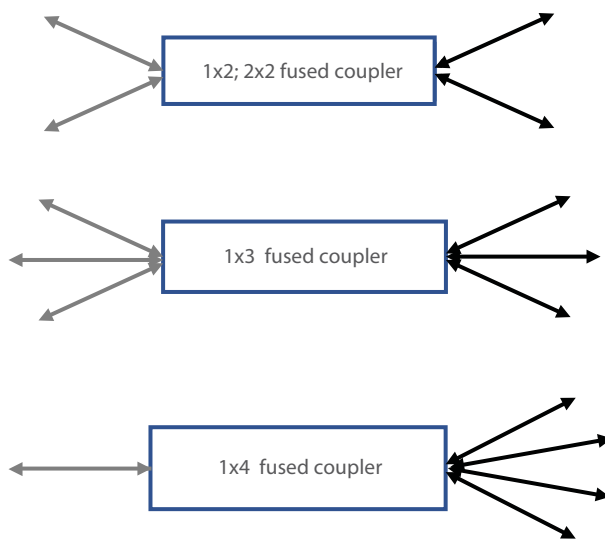
ORDERING INFORMATION

Type	Grade	Wavelength	Coupling Ratio	Port	Package	Fiber Type	Pigtail Style	Fiber Length*	In Connector	Out Connector
MMS =Standard	P=P grade	85=850nm	50 = 50:50	102=1x2	A=A package	A=50/125um	1=Bare fiber	05=0.5m	0 = None	0 = None
MMW =Wideband	A=A grade	31=1310nm	40=40:60	202=2x2	M=M package	B=62.5/125um	2=900um loose tube	10=1.0m	1 = FC/APC	1 = FC/APC
		55=1550nm	30=30:70	·	C=C package		3=3mm jacket	·	2 = FC/PC	2 = FC/PC
			20=20:80	·	S=S package		4=2mm jacket	·	3 = SC/APC	3 = SC/APC
			10=10:90	·	D=D package		5=1.6mm jacket	·	4 = SC/PC	4 = SC/PC
			05 =5:95					20=2.0m	5 = ST	5 = ST
			·						6 = LC/UPC	6 = LC/UPC
			·						7 = LC/APC	7 = LC/APC
			·							

*Other length is available upon request, However, 900μm loose tube is only up to 2m.