



# 1x4 Single mode Fused Coupler

## FEATURES

- Low Excess Loss
- Single Fusion Design
- Uniform Power Splitting
- Compact Size

## APPLICATION

- Telecommunication Systems
- Digital, Hybrid and AM-Video System
- CATV Systems
- Fiberoptic Sensors

## PERFORMANCE SPECIFICATIONS

Parameter	Specifications					
	Standard		Wideband		Dual window wideband	
Operating Wavelength	1310±10, 1480±10, 1550±10, 1585±10nm, or Custom		1310±40, 1485±40, 1550±40, 1585±40nm, or Custom		1310/1550±40, 1310/1585±40nm, or Custom	
Grade	P	A	P	A	P	A
Insertion Loss	≤ 6.7dB	≤ 7.6dB	≤ 6.7dB	≤ 7.6dB	≤ 7.5dB	≤ 7.9dB
Excess loss	≤0.20dB	≤0.30dB	≤0.20dB	≤0.30dB	≤0.30dB	≤0.40dB
Uniformity	≤ 1.3dB	≤ 1.5dB	≤ 1.6dB	≤ 1.8dB	≤ 1.6dB	≤ 1.8dB
Polarization dependent loss	≤ 0.12dB	≤ 0.15dB	≤ 0.12dB	≤ 0.15dB	≤ 0.20dB	≤ 0.30dB
Directivity	≥ 50dB				≥ 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 C=98x14x8.5 (2&3 mm fiber jacket); S=89x51x9.2 (2&3 mm fiber jacket)					

All values referenced are without connector.

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### MECHANICAL DIMENSIONS

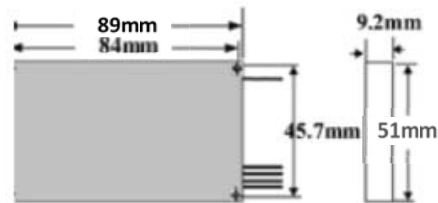
A Package



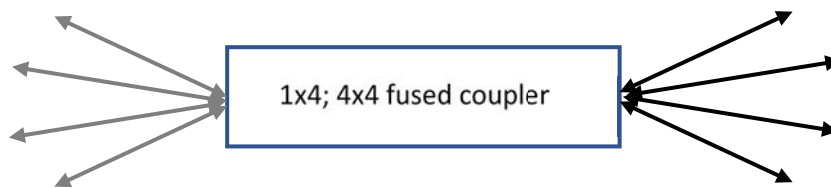
C Package



S Package



### PORT CONFIGURATIONS



### ORDERING INFORMATION

Type	Grade	Wavelength (single/dual window)	Port	Package	Fiber Type*	Pigtail Style	Fiber Length	In Connector	Out Connector
S=Standard	P=P grade	31=1310nm	104=1x4	A=A package	2=SMF-28 Ultra	1=Bare fiber	05=0.5m	0=None	0=None
W=Wideband	A=A grade	48=1480nm		C=C package	(G.657.A1)	2=900um	10=1.0m	1=FC/APC	1=FC/APC
		55=1550nm		S=S package		loose tube	·	2=FC/PC	2=FC/PC
		58=1585nm				3=3mm jacket	·	3=SC/APC	3=SC/APC
		3155=1310/1550nm				4=2mm jacket	·	4=SC/PC	4=SC/PC
		3158=1310/1585nm					20=2.0m	5=ST	5=ST
								6=LC/UPC	6=LC/UPC
								7=LC/APC	7=LC/APC

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