

FUSED FIBER COUPLERS

FUSED FIBER COUPLERS

DUAL WINDOW BROADBAND COUPLER

DiCon's Dual Window Broadband Coupler is a compact low loss singlemode component designed for splitting power signals in the 1550 nm and 1310 nm windows.



FEATURES

- Low insertion loss
- Low PDL
- Low wavelength dependence loss
- Tested to Telecordia GR-1221 (bare fiber version)

APPLICATIONS

Dual Window Broadband Couplers are designed for use in telecommunication equipment, CATV networks, and test equipment. These components are available individually or integrated into DiCon's modules for fiber protection switching, MUX/DMUX, optical channel monitoring, and add/drop multiplexing applications.



SPECIFICATIONS¹

Grade	Premium	Standard
Uniformity ²	0.8 dB max.	1.2 dB max.
Directivity	50 dB min. (for 1 X 2)	
	60 dB min. (for 2 X 2)	
Back-reflection	-50 dB max. (for 1 X 2)	
	-60 dB max. (for 2 X 2)	
Thermal stability	0.002 dB/°C max.	
Fiber type	9/125 Corning SMF-28	
Operating temperature	-40°C to + 70°C	
Storage temperature	-40°C to + 85°C	

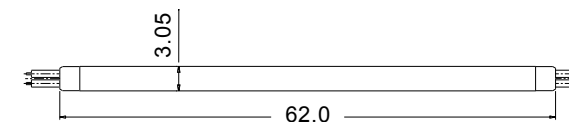
1. All specifications referenced without connectors.
2. For 50/50 coupler only.

COUPLING RATIO TABLE

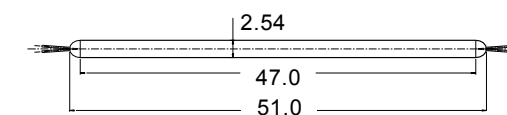
Tap ratio	Insertion loss P1		Insertion loss P2		PDL	
	Premium	Standard	Premium	Standard	Premium	Standard
1%	0.3	0.4	23.5	24	0.25	0.25
2%	0.3	0.4	19.8	21	0.25	0.25
5%	0.4	0.5	15.2	18	0.25	0.25
10%	0.6	0.8	11.8	12.7	0.25	0.25
20%	1.2	1.4	7.9	8.4	0.25	0.25
30%	1.9	2.1	6.0	6.4	0.2	0.2
40%	2.7	2.9	4.7	5	0.15	0.2
50%	3.6	3.9	3.6	3.9	0.15	0.2

HOUSING DIMENSIONS

Loose Tube Package



Bare Fiber Package



Units: mm

ORDERING INFORMATION

