

# FUSED FIBER COUPLERS

## SINGLE WINDOW NARROWBAND COUPLER

DiCon's Single Window Narrowband FBT Coupler is a compact low loss singlemode component designed for splitting power signals in the 1550 nm or 1310 nm windows.



### FEATURES

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

### APPLICATIONS

Single Window Narrowband FBT Couplers are designed for power splitting and tapping 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.



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## SPECIFICATIONS<sup>1</sup>

Grade	Premium	Standard
Uniformity <sup>2</sup>	0.5 dB max.	0.7 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	

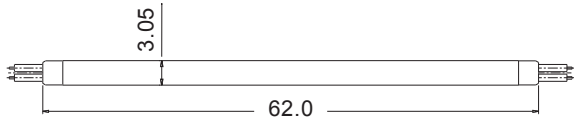
- All specifications referenced without connectors.
- For 50/50 coupler only.

## COUPLING RATIO TABLE

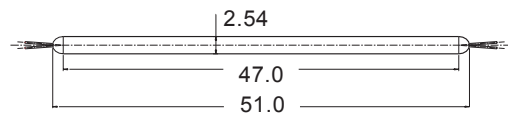
Tap ratio	Insertion loss P1		Insertion loss P2		PDL	
	Premium	Standard	Premium	Standard	Premium	Standard
1%	0.2	0.3	21	22.5	0.2	0.3
2%	0.25	0.35	18.2	19.2	0.15	0.25
5%	0.4	0.5	14	17.8	0.15	0.25
10%	0.6	0.8	10.8	11.8	0.1	0.2
20%	1.2	1.3	7.3	7.9	0.1	0.2
30%	1.7	1.9	5.5	6.0	0.1	0.2
40%	2.4	2.7	4.3	4.7	0.1	0.2
50%	3.3	3.6	3.3	3.6	0.1	0.15

## HOUSING DIMENSIONS

### Loose Tube Package



### Bare Fiber Package



Units: mm

## ORDERING INFORMATION

