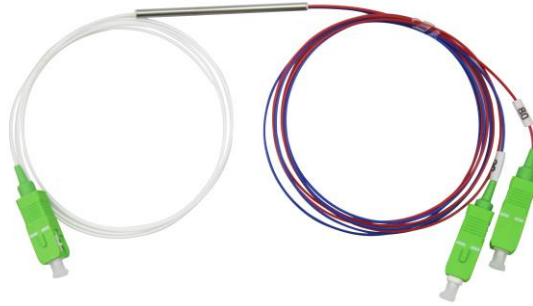


# Single-mode FBT Coupler Datasheet

Widely used in optical network monitoring, optical fiber sensing, FTTX, CATV and other fields.



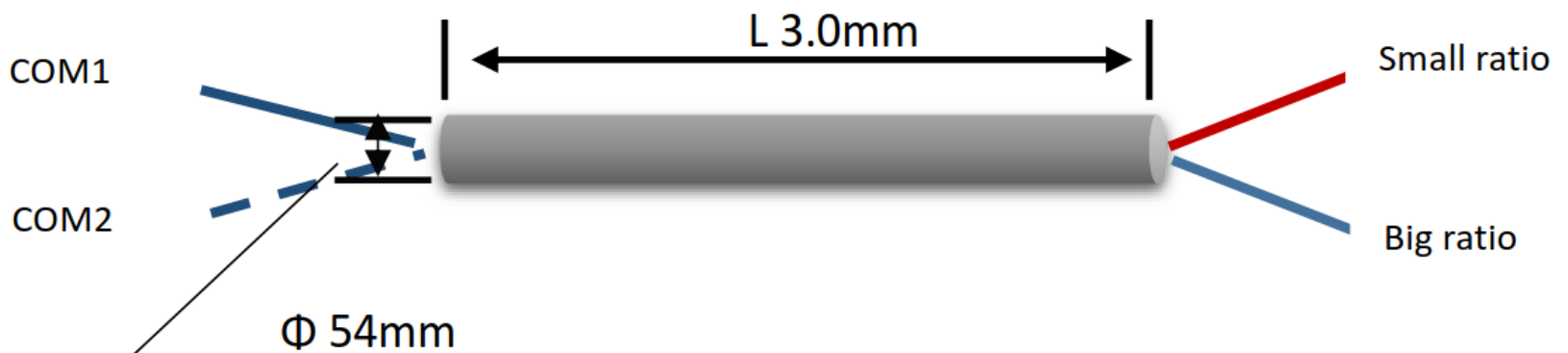
## • Description

The single-mode FBT coupler is used to fuse two or more optical fibers under the condition of high-temperature heating and stretch them to both sides, PON network is mainly used for optical signal distribution and monitoring in optical networks and is one of the most important passive components. OPTICO offers a single-mode taper coupler with 1x2,2x2 and a variety of spectral ratios to meet a variety of customer needs.

## • Features

- Low insertion loss
- High stability and reliability
- Wide working wavelength range
- Compact design
- High stability and reliability
- Meets TelcordiaGR-1209 and GR-1221, meets ROHS standard
- 100% tested before delivery
- Mature production technology

## • Coupler drawing (Unit: mm):



• Optical Specifications:

Configuration		Unit	1x2 or 2x2			
Package Type		-	SSC	WBC	DWC	TWC
Operating Wavelength		nm	1310/1550	1310/1550	1310&1550	1310&1490&1550
Operating Bandwidth		nm	±20	±40	±40	1310&1550±40; 1490±10
Insertion loss	1/99	%	18.60~21.6/≤0.25	18.60-21.6/≤0.25	18.60-21.6/≤0.25	17.8-22.4≤0.35
	2/98		15.75~18.45/≤0.3	15.75~18.45/≤0.3	15.75~18.45/≤0.3	15.00~19.20/≤0.4
	3/97		14.1~16.5/≤0.35	14.1~16.5/≤0.35	14.1~16.5/≤0.35	13.6~17.05/≤0.45
	5/95		12.05~14.15/≤0.4	12.05~14.15/≤0.4	12.05~14.15/≤0.4	11.55~14.65/≤0.5
	10/90		9.20~11.2/≤0.75	9.20~11.2/≤0.75	9.20~11.2/≤0.75	8.8~11.4/≤0.8
	20/80		≤9.5/1.0	≤9.5/1.0	≤9.5/1.0	≤10.0/1.2
	25/75		≤7.9/1.3	≤7.9/1.3	≤7.9/1.3	≤8.4/1.4
	30/70		≤6.0/1.9	≤6.0/1.9	≤6.0/1.9	≤7.3/1.9
	33/67		≤5.7/2.2	≤5.7/2.2	≤5.7/2.2	≤6.3/2.1
	40/60		≤4.7/2.7	≤4.7/2.7	≤4.7/2.7	≤4.9/2.9
	45/55		≤4.2/3.2	≤4.2/3.2	≤4.2/3.2	≤4.4/3.4
50/50	≤3.6	≤3.6	≤3.6	≤3.8		
PDL		dB	≤0.15			
Return Loss		dB	≥50			
Directivity		dB	≥55			
Fiber type		-	SMF-28			
Temperature		°C	-40+85			
Package		Mm	3x45/3x54/3x60/90x20x10			
Connector Type		-	As customized			