

Fused Coupler, Single Window, Low loss C+L Band or S Band FFCK Series



Key Features

- High-power handling
- Wide range of regular parts readily available
- Proven reliability

Applications

- Signal monitoring in C+L band EDFA or RAMAN amplifier
- Network expansion
- Network monitoring

Compliance

- Telcordia GR-1221

The fused coupler, low loss, C+L band or S band enables the accurate splitting and monitoring of optical signals in single-mode fiber. In addition, JDSU manufacturing technology provides uniquely low excess loss and wavelength dependence, along with low polarization and temperature dependence for both signal and tap ports.

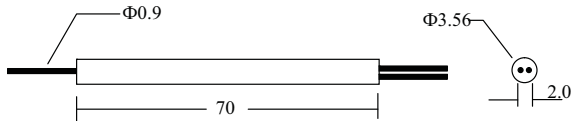
These high-performance standard parts are available in a variety of tap ratios, operating wavelengths, and housing and connector options, and can therefore be specified in a wide range of applications, enabling rapid design cycles and new project builds.

2

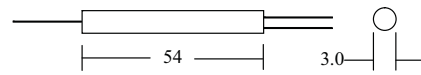
Dimensions Diagrams

Specifications in mm unless otherwise noted

1x2 Models, L-Package



1x2 Models, S-Package



Insertion Loss

Coupling Ratio	Grade	Insertion Loss ^{1,2} (Min./Max.) (dB)	Signal Path			Insertion Loss ^{1,2} (Min./Max.) (dB)	Tap Path		
			WDL ³ Max. (dB)	PDL ⁴ Max. (dB)	TDL ⁵ Max. (dB)		WDL ³ Max. (dB)	PDL ⁴ Max. (dB)	TDL ⁵ Max. (dB)
1%	P	NA/0.15	0.04	0.03	0.02	18.2/23.0	0.90	0.20	0.20
1%	A	NA/0.18	0.06	0.05	0.02	17.4/23.0	1.20	0.25	0.20
2%	P	NA/0.18	0.05	0.03	0.02	16.0/18.6	0.60	0.15	0.15
2%	A	NA/0.20	0.07	0.05	0.02	15.2/20.0	1.00	0.20	0.15
3%	P	NA/0.23	0.05	0.03	0.04	14.2/16.5	0.50	0.14	0.15
3%	A	NA/0.28	0.07	0.05	0.04	13.7/17.4	0.90	0.20	0.15
5%	P	NA/0.32	0.06	0.03	0.08	12.1/14.3	0.45	0.12	0.15
5%	A	NA/0.40	0.08	0.05	0.08	11.8/14.8	0.80	0.20	0.15
10%	P	NA/0.60	0.07	0.04	0.08	9.40/11.1	0.40	0.10	0.13
10%	A	NA/0.70	0.09	0.06	0.08	9.00/11.4	0.60	0.15	0.13
20%	P	NA/1.15	0.11	0.05	0.10	6.30/7.90	0.37	0.10	0.10
20%	A	NA/1.25	0.15	0.07	0.10	6.00/8.20	0.55	0.15	0.10
30%	P	NA/1.75	0.15	0.06	0.10	4.60/5.80	0.35	0.10	0.10
30%	A	NA/1.85	0.20	0.08	0.10	4.50/6.00	0.50	0.15	0.10
40%	P	NA/2.50	0.20	0.07	0.10	3.85/4.40	0.30	0.09	0.10
40%	A	NA/2.60	0.30	0.09	0.10	3.70/4.60	0.45	0.11	0.10
50%	P	2.7/3.30	0.25	0.08	0.10	2.70/3.30	0.25	0.08	0.10
50%	A	2.6/3.50	0.40	0.10	0.10	2.60/3.50	0.40	0.10	0.10

1. Tap ratio \leq five percent, the Insertion Loss including WDL, PDL and TDL; Tap ratio $>$ five percent, the Insertion Loss including WDL and PDL, not including TDL.
2. In 2x2 couplers with a coupling ratio of 20 percent or lower, insertion loss is not specified for launch through second input port (P4).
3. Change in insertion loss over the operating wavelength range.
4. Change in insertion loss over all input polarization states.
5. Change in insertion loss from -5 to 75°C .

