

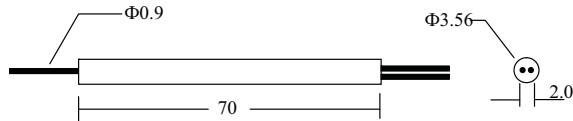


## 2

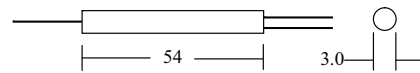
### Dimensions Diagrams

Specifications in mm unless otherwise noted

#### 1x2 Models, L-Package



#### 1x2 Models, S-Package



### Insertion Loss

Coupling Ratio	Grade	Insertion Loss <sup>1,2</sup> (Min./Max.) (dB)	Signal Path			Insertion Loss <sup>1,2</sup> (Min./Max.) (dB)	Tap Path		
			WDL <sup>3</sup> Max. (dB)	PDL <sup>4</sup> Max. (dB)	TDL <sup>5</sup> Max. (dB)		WDL <sup>3</sup> Max. (dB)	PDL <sup>4</sup> Max. (dB)	TDL <sup>5</sup> 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 ≤ 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.

## Specifications

Parameter	C+L band	S band
Operating wavelength range <sup>1</sup>	1528 to 1605 nm	1425 to 1500 nm
Return loss/directivity	Minimum	55 dB
Pigtail tensile load	Maximum	5 N
Optical Power handling <sup>2</sup>	Maximum	4 W
Operating temperature range <sup>3</sup>		-40 to 75°C
Storage temperature range		-40 to 85°C
Environmental qualification		Telcordia GR-1221
Package dimensions		
S package (D x L)		3.0 x 54 mm
L package (D x L)		3.6 x 70 mm
H package (L x W x H)		85 x 17.8 x 7.5 mm

- For wavelength within  $\pm 5$  nm of the specified range performance will be maintained for signal path insertion loss, PDL, TDL, directivity and return loss. The only parameters to increase will be tap insertion loss and WDL. Maximum values of increase are:  
Tap ratio = 1%, maximum tap insertion loss and WDL increase = 0.1 dB.  
Tap ratio = 2 to 9%, maximum tap insertion loss and WDL increase = 0.07 dB.  
Tap ratio = 10 to 50%, maximum tap insertion loss and WDL increase = 0.05 dB.
- For 1x2 and 2x2 configurations.
- TDL is specified from -5 to 75°C.

## Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide, or via e-mail at [customer.service@jdsu.com](mailto:customer.service@jdsu.com).

[www.DataSheet4U.com](http://www.DataSheet4U.com)

**Sample: FFCK12H1PB110**

FFCK

Code	Passband Wavelength
1	C+L band
S	S band

Code	Coupling Ratio
1	1%
2	2%
3	3%
5	5%
A	10%
C	20%
E	30%
H	40%
K	50%

Code	Housing
H	Ø 3.0 mm cable
L	Ø 900 µm fiber
S	Ø 250 µm fiber

Code	Configuration
0	1x1 (attenuator)
1	1x2
2	2x2

Code	Grade
A	Grade A
P	Grade P

B1

Code	Pigtail Length
0	0.5 m
1	1 m
2	2 m
3	3 m
4	4 m
5	5 m
6	6 m
7	7 m
8	8 m
9	9 m
A	10 m

Code	Connectors
0	None
1	FC/PC
2	FC/SPC
3	FC/APC
4	SC/SPC
5	SC/APC
6	BICONIC
7	D4
8	ST
9	FC/UPC
A	SC/UPC
B	LC
C	MU
D	MPX
E	E2000
J	LC/APC
K	LC/APC
L	E2000/APC

**NORTH AMERICA: 800 498-JDSU (5378)**

**WORLDWIDE: +800 5378-JDSU**

**WEBSITE: [www.jdsu.com](http://www.jdsu.com)**