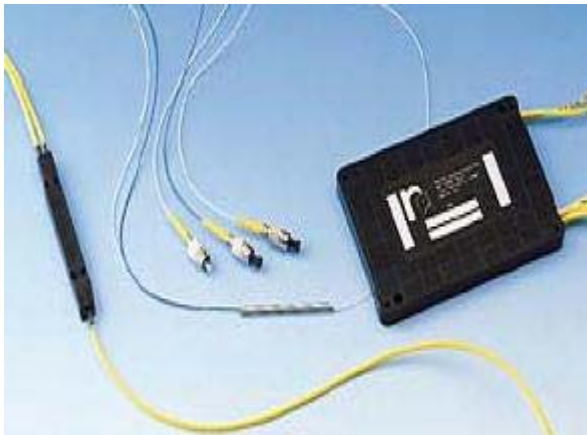


DESCRIPTION

Radiant Communications supplies a line of premium performance singlemode wideband couplers. They can be factory terminated with back reflections as low as -60dB with PC terminations and -70dB with APC connectors. There are a variety of packaging options available, including modules to fit AT&T and Sincor cabinets. These wideband couplers are operational in both the 1310nm and 1550nm wavelength ranges.



GFC-C1315 Fiber Optic Wide Band Couplers

BENEFITS

- Premium Performance
- For 1310 nm & 1550 Transmission
- 1 x 2 to 1 x N

FEATURES

- Bellcore TR-NWT-001209 Compliant
- Variety of packaging options
- High Port Isolation
- Low Insertion Loss



**Radiant
Communications
Corporation**

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P.O. Box 867
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USA

3/2005

▶ GFC-CI315 Fiber Optic Wide Band Couplers

SPECIFICATIONS

Center Wavelength	
1310 and 1500nm	
Bandpass	
±/- 40nm	
Uniformity	
0.7dB max	
Thermal Stability	
0.1 dB max	
Polarization Stability	
0.1dB max	
Directivity	
60dB min	
Dimensions	
Bare Fiber	3mmOD x 53mmL (0.12" x 2.09")
Loose Tube	4mmOD x 53mmL (0.16" x 2.48")
Ruggedized	12mmW x 9.5mmD x 95mmL (0.48" x 0.38" x 3.75")
High Isolation	140mmL x 100mmW x 20mmD (5.5" x 4" x 0.40")
Operating Temperature	
-40° to +75°C	

INSERTION LOSS (dB)			
1 x 2 (or 2 x 2)	Typ	Max	Uniformity
50%	3.4	3.7	0.7
45%	3.9/3.1	4.1/3.2	
40%	4.5/2.6	4.7/2.7	
35%	5.1/2.2	5.3/2.3	
30%	5.6/1.9	5.8/2.0	
25%	6.5/1.5	6.8/1.5	
20%	7.6/1.2	7.8/1.3	
15%	9.0/0.95	9.2/1.0	
10%	10.6/0.75	11.2/0.5	
5%	14.0/0.45	14.4/0.5	
1%	21.0/0.35	22.0/0.5	
1 x N	Typ	Max	Uniformity
1 x 3	5.0	6.4	1.0
1 x 4	6.6	7.4	1.3
1 x 5	7.6	8.6	1.5
1 x 6	8.2	9.5	1.7
1 x 7	9.2	10.5	1.9
1 x 8	10.0	11.1	2.1
1 x 9	10.5	11.6	2.2
1 x 10	11.0	12.0	2.3
1 x 12	12.2	13.2	2.6

ORDERING INFORMATION

PART NUMBER	# of PORTS	PACKAGING	CONNECTOR
GFC-CI315-(# of Ports)-(Split Ratio)-(packaging)-(Connector)	1x2 2x2	R- Bare Fiber L- Loose Tube RC- Ruggedized *H- High Isolation	A- SC/APC B- FC D-ST E- SC F- LC S- FC/NAPC Z- FC/APC

Note:

- * High Isolation WDM—must use high isolation packaging or modules
- Specify Y—connector type: A—SC/APC, E—SC, B—FC, Z—FC/APC, D-ST
- ** ST is a registered trademark of AT&T
- Due to product enhancements, specifications are subject to change without notice



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