

Fused Coupler 980nm

The G&H Fused Coupler, 980nm enables the accurate splitting and monitoring of pump power in erbium doped fibre amplifiers. G&H proprietary manufacturing technology provides uniquely low excess loss, along with low polarisation and temperature dependence for all ports.

G&H 00150165 11#10 1.0700

These high performance parts are available in a wide variety of tap ratios, housing and connector options and can therefore be readily specified in a wide variety of applications, enabling rapid design cycles and new project builds. Standard variants for 960nm and 1060nm may also be selected.

Reliability is assured through qualification to Telcordia GR-1221, with a field proven FIT rate of < 1.

For the subminiature version of this product please contact the sales office.

Key Features:

Ultra low pump loss Minimum wastage of pump power High EDFA output power 960 and 1060nm also available < 1 FITs

Applications:

EDFA pump redundancy and sharing EDFA pump monitoring Sensors

Compliance:

Telcordia GR-1221

Contact: sales@goochandhousego.com

www.goochandhousego.com

As part of our policy of continuous product improvement we reserve the right to change specifications at any time PEC 0104 Issue 3



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Optical Specifications

		Signal Path			Tap Path		
Coupling Ratio	Grade	Insertion	Loss _{1,2} (dB)	TDL ₃ (dB)	Insertion Lo	oss _{1,2} (dB)	TDL₃ (dB)
Example ₄		Min	Max	Max	Min	Max	Max
1%	Р		0.15	0.02	18.4	21.5	0.20
1%	А		0.20	0.02	15.0	22.0	0.20
5%	Р		0.40	0.08	11.3	14.8	0.15
5%	А		0.50	0.08	11.0	15.2	0.15
10%	Р		0.65	0.08	9.0	11.5	0.13
10%	А		0.75	0.08	8.5	11.8	0.13
20%	Р		1.40	0.10	5.6	8.4	0.10
20%	А		1.50	0.10	5.4	8.6	0.10
30%	Р		2.00	0.10	4.1	6.4	0.10
30%	А		2.20	0.10	4.0	6.5	0.10
40%	Р		2.60	0.10	3.2	4.7	0.10
40%	А		2.80	0.10	3.1	4.8	0.10
50%	Р	2.60	3.40	0.10	2.6	3.4	0.10
50%	А	2.50	3.60	0.10	2.5	3.6	0.10

Insertion loss over operating wavelength range (not including TDL or connector losses) 1

In 2x2 couplers, insertion loss is not specified for launch through second input port P4 (coloured blue) Change in insertion loss from -5 to $75^{\circ}C$ 2.

3.

4. Any coupling ratio available - contact G&H for specification of coupling ratios not listed.

Parameter		Specification	Unit
Operating Wavelength Range	960nm	955-965	nm
	980nm	975-985	nm
	1060nm	1055-1065	nm
Return Loss/Directivity ₁		55	dB
Pigtail Tensile Load		5	Ν
Optical power handling		4	W
Operating / Storage Temperature R	Range ₂	-40 to +75 / -40 to +85	°C
Environmental Qualification		Telcordia GR 1221	

Environmental Qualification dia GR 1221 Return loss is the ratio of power launched to power reflected for port P1. Directivity for the 2x2 component is the ratio of power launched to P1 to the power reflected to P4. 1.

2 For connectorised component, operating temperature range is -5 to +75°C.

Housing Option

Housing Code	Description	Dimensions (mm)	Pigtail
2	Miniature	3.0 (Ø) x 45 (L)	Primary-coated fibre
3	Regular	3.0 (∅) x 50 (L)	Primary-coated fibre
4	arnothing 0.9 mm slim	3.0 (Ø) x 60 (L)	\varnothing 0.9 mm loose-tube
5	Ø 0.9 mm semi-ruggedised	5.0 (Ø) x 75 (L)	\varnothing 0.9 mm loose-tube
6	Ø 3.0 mm fully-ruggedised	80 (L) x 10 (W) x 8 (H)	\varnothing 3.0 mm fan-out sleeving

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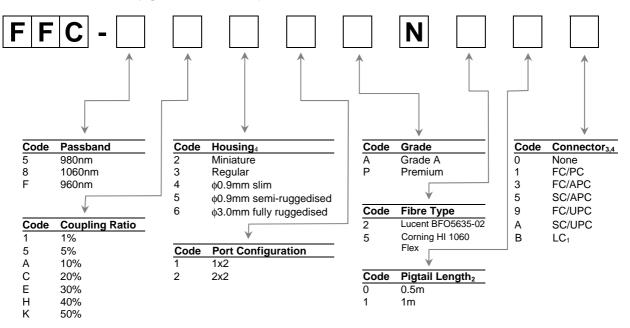


Configurations



Ordering Code Information

Sample: FFC-5K31PN210 (980nm, 50/50 coupling ratio, regular housing, 1x2, premium grade, Lucent BFO5635-02 fibre, 1m pigtail, no connector)



1. Not available for housing option 6.

Minimum pigtail length. Further pigtail lengths available on request. Where connectorised, pigtail length is to connector end face. Insertion loss values in specification table do not include connector loss. 2.

3.

4. Connectors may be fitted to housing types 4, 5 and 6. For connectorisation of housing types 2 and 3 please contact the sales office.

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