Gooch & Housego

PM Low Ratio Tap Coupler

The G&H Fused PM LRT, taps off low power from a signal path whilst maintaining polarisation through the component. G&H proprietary PM manufacturing technology provides tap ratios as low as 0.01% with ultra low loss and high polarisation extinction ratio. The all fibre construction and excellent loss characteristics provide exceptional reliability at high powers. PM LRT's also exhibit improved tap ratio stability when input polarisation extinction ratio levels are low or fluctuating.

These high performance parts are available at a range of wavelengths with different fibre options. PM LRTs can therefore be readily specified in a wide variety of applications, enabling rapid design cycles and new project builds.

Standard parts are available at wavelengths from 900 – 1600nm. For other wavelengths or coupling ratios please contact the sales office.

Key Features:

- Low Loss
- High PER
- High power handling
- PM PANDA Fibre on all ports

Applications:

- Fibre lasers
- Instrumentation

PEC 0130 Issue 3

光技術をサポートする
株式会社オプトサイエンス
http://www.optoscience.com

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Optical Specifications

Parameter	Specification[3]					Unit
Coupling Ratio	0.01	0.1	1	5	10	%
Tap Insertion Loss[1]	36 -44	27-33	18.2 - 23	11.9 – 14.9	8.86 – 11.85	dB
Signal Insertion Loss[1]	0.3 (Typ <0.1)	0.3 (Typ <0.1)	0.37	0.6	0.9	dB
1300 – 1600 Signal PER[2]	>20					dB
900 – 1100 Signal PER[2]	>20					dB
Return Loss	>55					NA
Operating Wavelength[4]	Any Wavelength from 900-1100nm and 1300-1600nm					NA
Housing	Regular Ø3.0 x 60 (max)					
Fibre Type	PM PANDA Fibre					

1. Insertion Loss at operating wavelength. Not including TDL.
2. Devices manufactured to operate in fast axis as standard. For use in a slow-axis system a 90° PM splice is required.
3. Specifications shown are for operation at room temperature.
4. The centre wavelength may be selected from within the available wavelength range supplied.

Configuration

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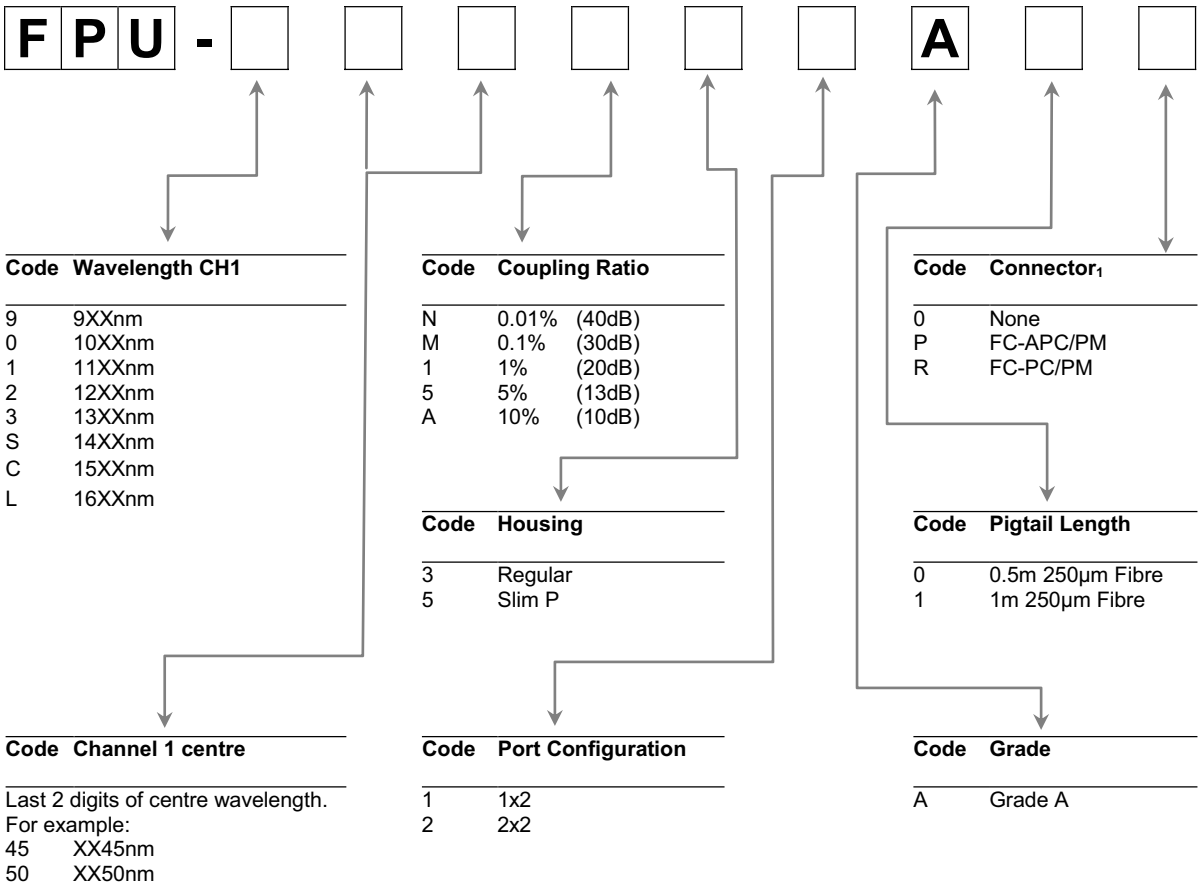
Ordering Code Information

Sample: FPU-060N31A10 (Fused Fibre LRT, 1060nm, 0.01% tap, Regular housing, 1x2, Grade A, 1m pigtails, No connectors)



Code	Wavelength CH1
9	9XXnm
0	10XXnm
1	11XXnm
2	12XXnm
3	13XXnm
S	14XXnm
C	15XXnm
L	16XXnm

Code	Coupling Ratio
N	0.01% (40dB)
M	0.1% (30dB)
1	1% (20dB)
5	5% (13dB)
A	10% (10dB)

Code	Housing
3	Regular
5	Slim P

Code	Channel 1 centre
Last 2 digits of centre wavelength. For example:	
45	XX45nm
50	XX50nm

Code	Port Configuration
1	1x2
2	2x2

Code	Connector[1]
0	None
P	FC-APC/PM
R	FC-PC/PM

Code	Pigtail Length
0	0.5m 250µm Fibre
1	1m 250µm Fibre

Code	Grade
A	Grade A

PM Products are manufactured using 250µm PANDA PM fibre, 400µm PANDA PM fibre available at wavelengths higher than 1400nm.