



flawless fusion with infinite possibilities

SIFAM
FIBRE OPTICS

PM Low Ratio Tap Coupler



The SIFAM Fused PM LRT, taps off low power from a signal path whilst maintaining polarisation through the component. SIFAM 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

SIFAM Fibre Optics Ltd
Broomhill Way, Torquay
Devon TQ2 7QL
England



Certificate No. 0962231

As part of our policy of continuous product improvement we reserve the right to change specifications at any time
PEC0130 Iss 2

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Optical Specifications

Parameter	Specification ₃					Unit
	0.01	0.1	1	5	10	
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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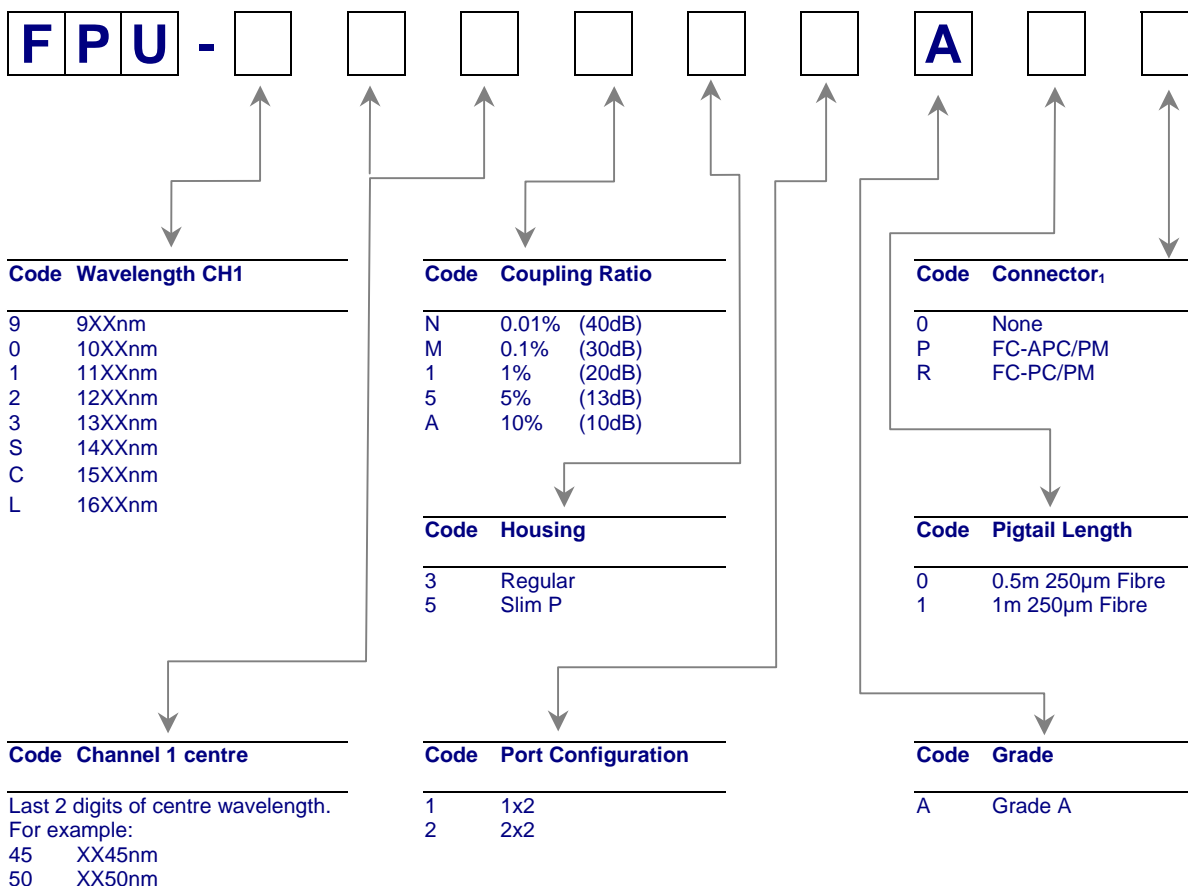


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Ordering Code Information

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



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

If you require any further information including technical and qualification data about these or any other SIFAM Fibre Optics components, please contact the SIFAM Fibre Optics Team.

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