



flawless fusion with infinite possibilities

SIFAM
FIBRE OPTICS

PM WDM



The SIFAM Fused PM WDM, combines multiple wavelengths of light in PM Fibre whilst maintaining polarisation. SIFAM proprietary PM manufacturing technology provides low loss, with high polarisation extinction ratio. The all fibre construction offers excellent reliability and high power handling characteristics.

These high performance parts are available in many wavelength configurations, housing, fibre and connector options and can therefore be readily specified in a wide variety of applications, enabling rapid design cycles and new project builds.

In common with all PM components, it is necessary to launch into either the slow or the fast axis to maintain polarisation. For the SIFAM PM WDM, specifications are based on slow axis launch, although fast axis versions are also available if requested

Key Features:

- Low Loss
- High PER
- High power handling
- PM PANDA Fibre on all ports
- Slow Axis operation as standard
- Fast Axis operation available on request

Applications:

- Pump signal WDM for EDFA
- 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
PEC0129 Iss 2

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Optical Specifications

Wavelength			Available Housing	CH1 Insertion Loss ₁ (dB)	CH2 Insertion Loss ₁ (dB)	CH1 PER	CH2 PER
CH1	Ch2	Spacing		Max (Typ)	Max (Typ)		
900-1100nm	900-1100nm	50-100nm	3	1.0 (0.5)	1.0 (0.5)	>15dB	>15dB
900-1100nm	900-1100nm	>100nm	3	0.7 (0.3)	0.7 (0.3)	>17dB	>17dB
900-1100nm ₂	1450 - 1600nm	-	3	0.3 ₂ (0.2)	0.5 (0.2)	>17dB ₂	>20dB
1300 - 1600nm	1300 - 1600nm	50-100nm	3	1.0 (0.5)	1.0 (0.5)	>17dB	>17dB
1300 - 1600nm	1300 - 1600nm	>100nm	3	0.7 (0.3)	0.7 (0.3)	>20dB	>20dB

1. Insertion loss specified at centre wavelength and room temperature.
2. 900-1100nm wavelength range may be below the 2nd order mode cut-off for the fibre used to manufacture this product type. Performance specified for single-mode incident on this path.
3. Custom specifications available on request
4. For wavelength spacing <50nm, please contact the sales office.

Parameter	Specification	Unit
Return Loss/Directivity ₁	55	dB
Pigtail Tensile Load	5	N
Optical Power Handling	1	W
Operating / Storage Temperature Range	-5 to +75 / -40 to +85	°C
Fibre Type	PM PANDA Fibre	

1. Measured reference port P3 input for signal wavelength, P2 input for pump wavelength and P1 input for signal and pump wavelengths.

Housing Option

Housing Code	Description	Max Dimensions (mm)	Pigtail
3	Regular	3.0 (Ø) x 85 (L)	Primary-coated fibre

Configuration



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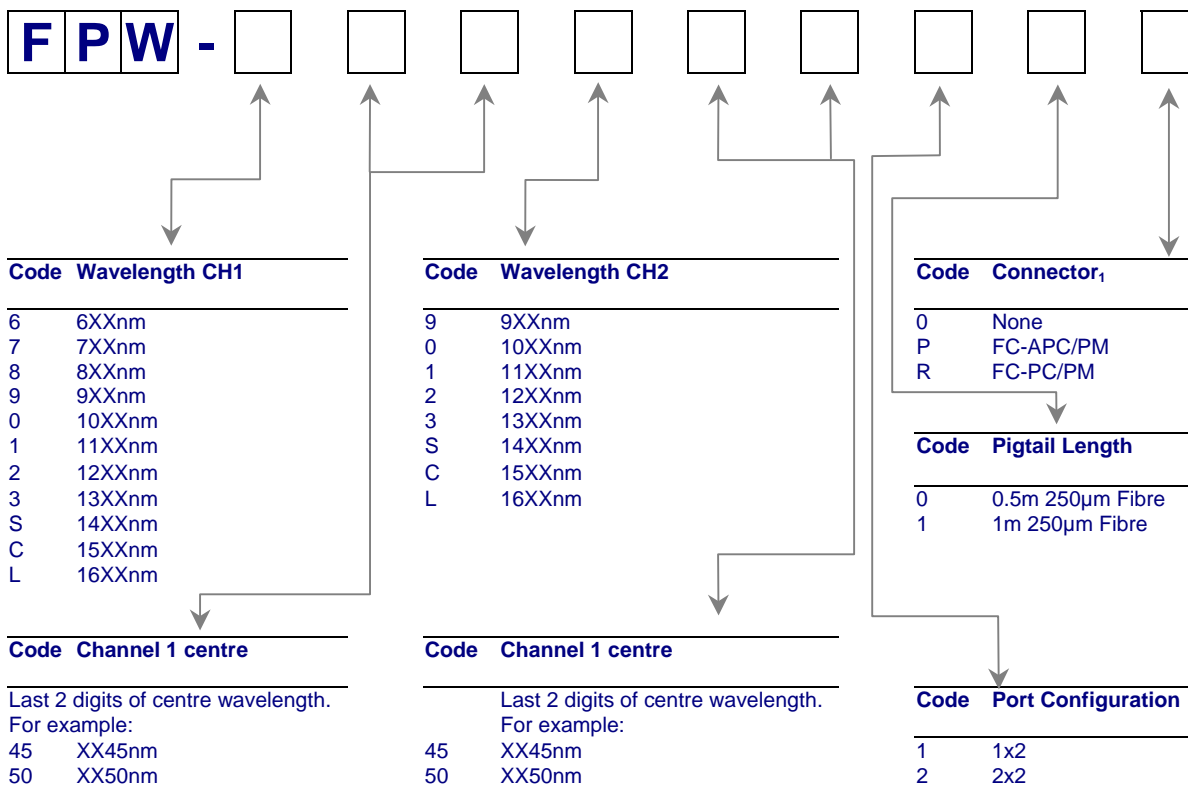


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Ordering Code Information

Sample: FPW-980060110 (Fused Fibre WDM, 980/1060, 1x2, 1m pigtailed, No connectors)



1. Insertion loss in specification table does not include connector losses.
2. The SIFAM high power housing option is available on request for this product.

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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