



flawless fusion with infinite possibilities

SIFAM
FIBRE OPTICS

Fused Pump Signal WDM 1480nm



The SIFAM Fused Pump Signal WDM, 1480nm multiplexes signal and pump power in 1480nm-pumped erbium doped fibre amplifiers. SIFAM proprietary manufacturing technology provides uniquely low excess loss, along with low polarisation and temperature dependence for all ports.

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. Wavelength configurations are 1480-C band and 1480-L band.

Key Features:

- Ultra-low typical <0.05dB excess loss
- Wide range of regular parts available
- High power handling

Applications:

- C or L-band pump/signal multiplexing
- 1480nm pump rejection
- Fibre lasers

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
PEC0103 Rev 2

Tel: +44(0) 1803 407784
Fax: +44(0) 1803 407786
sales@sifamfo.com
www.sifamfo.com

Optical Specifications

Wavelength		Grade	Available Housing	Insertion Loss ₁ (dB)	WDL ₂ (dB)	PDL ₃ (dB)	TDL ₄ (dB)	Isolation (dB)
Pump	Signal			Max	Max	Max	Max	Min
1480nm	C band	P	3,4,5,6	0.30	0.20	0.10	0.10	14
	L band							
1480nm	C band	A	3,4,5,6	0.50	0.30	0.15	0.10	12
	L band							

1. Insertion loss over operating wavelength range (not including PDL, TDL or connector losses)
2. Change in insertion loss over the operating wavelength range
3. Change in insertion loss over all input polarisation states in signal wavelength range.
4. Change in insertion loss from -5 to 75°C

Parameter	Specification	Unit
Operating Wavelength Range	1480nm band	1475-1485
	C band	1545-1555
	L band	1580-1590
Return Loss/Directivity ₁	55	dB
Pigtail Tensile Load	5	N
Optical Power Handling	4	W
Operating / Storage Temperature Range ₂	-40 to +75 / -40 to +85	°C

1. Measured reference port P3 input for signal wavelength, P2 input for pump wavelength and P1 input for signal and pump wavelengths.
2. For connectorised component, operating temperature range is -5 to +75°C.

Housing Option

Housing Code	Description	Dimensions (mm)	Pigtail
3	Regular	3.0 (∅) x 55 (L)	Primary-coated fibre
4	∅ 0.9 mm slim	3.0 (∅) x 70 (L)	∅ 0.9 mm loose-tube
5	∅ 0.9 mm semi-ruggedised	5.0 (∅) x 80 (L)	∅ 0.9 mm loose-tube
6	∅ 3.0 mm fully-ruggedised	80 (L) x 10 (W) x 8 (H)	∅ 3.0 mm fan-out sleeving

Configuration



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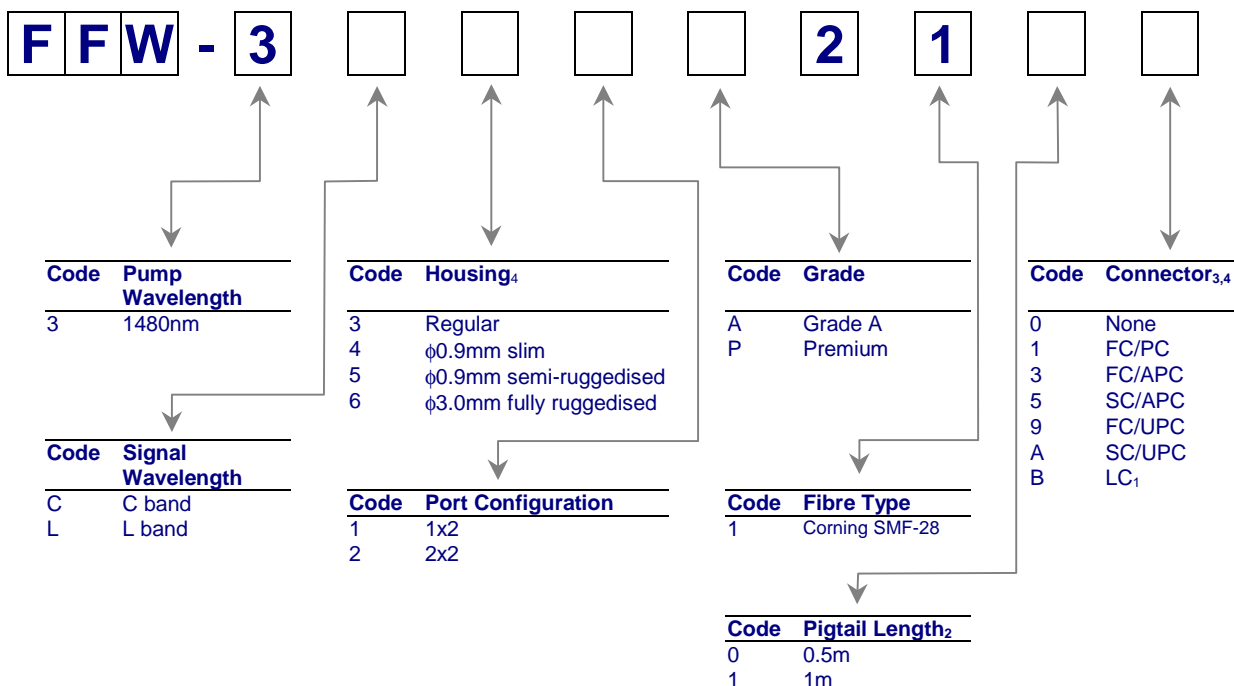


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Ordering Code Information

Sample: FFW-3C31P2110 (Fused Fibre WDM, 1480nm pump, C band signal, regular housing, 1x2, Premium grade, Corning SMF-28 fibre, 1m pigtail, no connector)



1. Not available for housing option 6.
2. Minimum pigtail length. Further pigtail lengths available on request. Where connectorised, pigtail length is to connector end face.
3. Insertion loss in specification table does not include connector losses.
4. Connectors may be fitted to housing types 4, 5 and 6. For connectorisation of housing type 3 please contact the sales office.

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