

## TECHNICAL DATASHEET

# Short Wavelength Fused Fiber Coupler FSMC FWBC

|                |                         |
|----------------|-------------------------|
| Product family | Couplers & Polarization |
| Key selection  | Fiber Optic Component   |

## Technical Specifications

| Parameter            | -     | Unit | Specification        | -                    | -                    | -                    |
|----------------------|-------|------|----------------------|----------------------|----------------------|----------------------|
| Grade                | -     | -    | P Grade              | A Grade              | PGrade               | A Grade              |
| Operating Wavelength | -     | nm   | 532,635              | -                    | 780,830,850,980,1060 | -                    |
| Bandwidth            | -     | nm   | ±15,±40              | -                    | ±15 or±40            | -                    |
| Typical Excess Loss  | -     | dB   | 0.20                 | 0.25                 | 0.15                 | 0.2                  |
| Coupling Ratio       | 50/50 | □    | ≤3.6                 | ≤3.7                 | ≤3.5                 | ≤3.6                 |
| -                    | 45/55 | □    | ≤4.2/3.3             | ≤4.4/3.4             | ≤4.1/3.1             | ≤4.3/3.3             |
| -                    | 40/60 | □    | ≤4.7/2.8             | ≤4.9/2.95            | ≤4.6/2.7             | ≤4.8/2.85            |
| -                    | 35/65 | □    | ≤5.4/2.5             | ≤5.7/2.7             | ≤5.3/2.4             | ≤5.6/2.6             |
| -                    | 33/67 | □    | ≤5.7/2.3             | ≤6.0/2.5             | ≤5.6/2.2             | ≤5.9/2.4             |
| -                    | 30/70 | □    | ≤6.0/2.0             | ≤6.3/2.2             | ≤5.9/1.90            | ≤6.2/2.1             |
| -                    | 25/75 | □    | ≤6.9/1.8             | ≤7.3/2.0             | ≤6.8/1.7             | ≤7.2/1.9             |
| -                    | 20/80 | □    | ≤7.8/1.45            | ≤8.3/1.6             | ≤7.7/1.35            | ≤8.2/1.5             |
| -                    | 15/85 | □    | ≤9.2/1.2             | ≤9.7/1.4             | ≤9.1/1.1             | ≤9.6/1.3             |
| -                    | 10/90 | □    | 10.80/0.95           | 9.30 to 11.00/0.8    | 10.70/0.85           | 9.20 to 11.00/0.8    |
| -                    | 5/95  | □    | 12.40 to 13.90/0.5   | 12.05 to 14.00/0.55  | 12.40 to 13.90/0.5   | 12.05 to 14.00/0.55  |
| -                    | 3/97  | □    | 14.70 to 16.20/0.50) | 14.. 30 to 167.0/060 | 14.70 to 16.20/0.50) | 14.. 30 to 167.0/060 |
| -                    | 2/98  | □    | 16.40 to 18.20/0.40  | 15.95 to 18.65/0.55  | 16.40 to 18.20/0.40  | 15.95 to 18.65/0.55  |
| -                    | 1/99  | □    | 1930 to 2130/040     | 1880 to 2170/045     | 19.30 to 21.30/0.40  | 1880 to 2170/045     |

| Parameter                   | - | Unit | Specification | -           | -   | -     |
|-----------------------------|---|------|---------------|-------------|-----|-------|
| Polarization Dependent Loss | - | dB   | ≤0.15         | ≤0.20 ≤0.15 | -   | ≤0.20 |
| Directivity                 | - | dB   | ≥55           | -           | ≥55 | -     |
| Operating Temperature       | - | °C   | -40 to +85    | -           | -   | -     |

## Configuration Notes

Available wavelength, optical power, fiber, connector, pigtail and package options depend on the selected product configuration. Please include the target application and quantity with your RFQ. Final ordering details are confirmed in the quotation.

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# Package Dimensions

## Short Wavelength Fused Fiber Coupler FSMC FWBC

Package reference: Dia. 3.0 x L54 / 90 x 20 x 9.5

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### Catalog-listed package information

Catalog-listed package options include dia. 3.0 x L54 mm or 90 x 20 x 9.5 mm, depending on configuration.

Dimensions are shown in millimetres unless otherwise indicated. Final package, pigtail and connector configuration should be confirmed in the quotation.