

TECHNICAL DATASHEET

1xN Single Mode Fused Fiber Coupler FSMC FWBC DWFC TWFC

Product family	Couplers & Polarization
Key selection	Single Mode / 1xN

Technical Specifications

Parameter	Unit	Specification	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Type	-	1x3 FSM C	-	-	-	3X3 FSM C	-	-	-	-	1X3 FW BC	-	-	-	-	3X3 FW BC	-	-	-	-	1X3 DW FC	-	-	-
Center Wavelength	nm	131 0or 155 0or 165 0	-	-	-	-	-	-	-	-	131 0or 155 0	-	-	-	-	-	-	-	-	-	131 0&1 550	-	-	-
Operating Bandwidth	nm	±1 5	-	-	-	-	-	-	-	-	±4 0	-	-	-	-	-	-	-	-	-	±4 0	-	-	-
Grade	-	P	-	A	-	P	-	A	-	-	P	-	A	-	-	P	-	-	A	-	P	-	A	-
Typical Excess Loss	dB	0.1	-	0.1 5	-	0.1	-	0.1 5	-	-	0.1	-	0.1 5	-	-	0.1	-	-	0.1 5	-	0.1	-	0.1 5	-
Insertion Loss	dB	≤5. 4	-	≤5. 7	-	≤5. 6	-	≤5. 8	-	-	≤5. 6	-	≤6. 0	-	-	≤5. 8	-	-	≤6. 2	-	≤5. 8	-	≤6. 2	-
Polarization Dependent Loss	dB	≤0. 20	-	≤0. 25	-	≤0. 25	-	≤0. 30	-	-	≤0. 20	-	≤0. 25	-	-	≤0. 25	-	-	≤0. 30	-	≤0. 25	-	≤0. 30	-
Uniformity	dB	≤0. 80	-	≤1. 2	-	≤1. 0	-	≤1. 4	-	-	≤1. 0	-	≤1. 4	-	-	≤1. 3	-	-	≤1. 6	-	≤1. 2	-	≤1. 5	-
Directivity	dB	≥5 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Parameter	Unit	Specification	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operating Temperature	°C	-40 to +85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	1X4 FSM C	-	-	-	-	1X4 FW BC	-	-	-	-	-	-	1X4 DW FC	-	-	-	-	-	1X4 TW FC	-	-	-	-
-	-	Normal size	-	-	Mini Size	-	Normal size	-	-	Mini Size	-	-	-	Normal size	-	-	Mini Size	-	-	Normal size	-	Mini Size	-	-
Operating Wavelength	nm	1310 or 1550	-	-	-	-	-	-	-	-	-	-	-	1310 & 1550	-	-	-	-	-	1310 & 1490&1550	-	-	-	-
Operating Bandwidth	nm	±15	-	-	-	-	±40	-	-	-	-	-	-	±40	-	-	-	-	-	1310 ± 40&1490±10&1550±40	-	-	-	-
Grade	-	P	A	-	P	A	P	-	A	P	-	A	-	P	A	-	P	A	-	P	A	P	-	A
Typical Excess Loss	dB	0.15	0.25	-	0.15	0.25	0.2	-	0.3	0.2	-	0.3	-	0.3	0.4	-	0.3	0.4	-	0.3	0.4	0.3	-	0.4
Insertion Loss	dB	≤7.0	≤7.4	-	≤7.2	≤7.5	≤7.1	-	≤7.4	≤7.2	-	≤7.5	-	≤7.2	≤7.5	-	≤7.3	≤7.7	-	≤7.2	≤7.5	≤7.3	-	≤7.7
Polarization Dependent Loss	dB	≤0.2	≤0.25	-	≤0.25	≤0.35	≤0.2	-	≤0.25	≤0.25	-	≤0.35	-	≤0.25	≤0.3	-	≤0.25	≤0.35	-	≤0.25	≤0.3	≤0.25	-	≤0.35
Uniformity	dB	≤1.0	≤1.4	-	≤1.2	≤1.5	≤1.2	-	≤1.6	≤1.4	-	≤1.8	-	≤1.4	≤1.8	-	≤1.5	≤2.0	-	≤1.4	≤1.8	≤1.5	-	≤2.0
Directivity	dB	≥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

1xN Single Mode Fused Fiber Coupler FSMC FWBC DWFC TWFC

Package reference: Multiple package options - see Package Dimensions below

Catalog-listed package information

Catalog-listed package options: dia. 3.0 x L54, dia. 3.0 x L40, dia. 3.0 x L60, dia. 3.0 x L35, dia. 2.4 x L30, dia. 4.0 x L65, or dia. 2.4 x L25 mm, depending on configuration.

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