

TECHNICAL DATASHEET

1x2/2x2 Mini Single Mode Fiber Coupler FSMC FWBC DWFC

Product family	Mini & Hybrid
Key selection	Single Mode / 1x2 / 2x2

Technical Specifications

Parameter	-	Unit	Specification	-	-	-	-	-
Type	-	-	FSMC	-	FWBC	-	DWFC	-
Grade	-	-	Grade P	GradeA	Grade P	GradeA	Grade P	GradeA
Operating Wavelength	-	nm	1310±15or 1550±15	-	1310±40 or 1550±40	-	1310±40&1550± 40	-
Polarization Dependent Loss	-	dB	≤0.10	≤0.15	≤0.10	≤0.15	≤0.15	≤0.20
Directivity	-	dB	(≥55	-	≥55	-	≥55	-
Typical Excess Loss	-	(dB)	0.07	0.1	0.07	0.1	0.15	0.20
Coupling Ratio	50/50	□	≤3.5	≤3.7	≤3.6	≤3.8	≤3.7	≤3.9
-	40/60	□	≤4.5/2.7	≤4.8/2.9	≤4.6/2.8	≤4.9/3.0	≤4.7/2.8	≤5.0/3.0
-	30/70	□	≤5.8/2.0	≤6.1/2.1	≤5.9/2.1	≤6.3/2.2	≤6.1/2.1	≤6.4/2.2
-	20/80	□	≤7.7/1.25	≤8.0/1.3	≤7.8/1.3	≤8.2/1.4	≤8.0/1.3	≤8.4/1.4
-	10/90	□	≤11.2/0.7	≤11.8/0.85	≤10.9/0.75	≤11.2/0.85	9.25 to 11.25/0. 7	≤8.80 to 11.65/ 0.85
-	5/95	□	≤14.5/0.45	≤15.0/0.55	≤14.5/0.5	≤15.0/0.55	≤12.10 to 14.40/0.5	≤11.60 to 14.90/0.55
-	3/97	□	≤16.3/0.4	≤16.8/0.45	≤16.4/0.4	≤16.8/0.45	14.15 to 16.75/0.4	≤13.60 to 17.30 /0.45
-	2/98	□	≤18.5/0.3	≤19.2/0.35	≤18.3/0.35	≤18.75/0.4	≤15.80 to 18.7 0/0.35	≤15.15 to 19.30/0.4
-	1/99	□	≤21.5/0.25	≤22.2/0.3	≤21.4/0.3	≤21.9/0.35	≤18.65 to 21.8 5/0.3	≤17.95 to 22.55 /0.35

Parameter	-	Unit	Specification	-	-	-	-	-
Operating Temperature	-	°C	-40 to +85	-	-	-	-	-
Storage Temperature	-	°C	-40 to +85	-	-	-	-	-
Port	-	-	7 1x2 or 2x2	-	-	-	-	-
Package Dimensions	-	mm	Φ2.4xL22 orΦ2.4xL25ordia. 2.4xL30dia. 3.0xL35ordia. 2.4xL18	-	-	-	-	-
Fiber Type	-	-	SMF-28eor RC80 SM1550	-	-	-	-	-
Pigtail Type	-	-	250um barefiber or 165um barefiber	-	-	-	-	-

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

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Package reference: Dia. 2.4 x L18-30 / Dia. 3.0 x L35

Catalog-listed package information

Catalog-listed package options: dia. 2.4 x L22, dia. 2.4 x L25, dia. 2.4 x L30, dia. 3.0 x L35, or dia. 2.4 x L18 mm, depending on configuration.

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