

Fiber Optic PBT Coupler

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Variants

1*2- 90:10 1*2- 50:50 1*2 - 30:70 1*2 55:45 1*2 - 20:80 1*2 - 95:5 1*2 - 25:75
1*2 - 35:65 1*2 - 15:85 1*2 - 40:60

Details

Optical Coupler 1×N Without Connector

The Optical Coupler 1×N Without Connector is a high-performance passive fiber optic splitter designed for signal distribution in FTTH, telecom, and optical network systems. It provides stable optical signal splitting with low insertion loss, excellent uniformity, and high reliability across a wide wavelength range. Available in multiple split ratios, it is ideal for customized network deployments.

Technical Specifications

Category	Specification
Product Type	Fiber Optic Coupler / Splitter
Configuration	1 × N
Split Ratio	Custom (various options available)
Available Ratios	99/1, 98/2, 95/5, 90/10, 80/20, 75/25, 70/30, 60/40, 54/45, 50/50
Fiber Type	Single Mode (SMF-28e or equivalent)
Operating Wavelength	1310 / 1550 nm (1260–1650 nm)
Insertion Loss (50:50)	? 3.4 dB
Loss Uniformity	? 0.8 dB

Return Loss	? 55 dB
PDL	? 0.15 dB
Directivity	? 55 dB
Connector Type	Without Connector
Package Type	Steel Tube / ABS Box
Dimensions	90 x 20 x 10 mm
Tube Size	Ø3.0 x 50 mm
Operating Temperature	-40°C to +85°C
Stability	High environmental & mechanical stability