

Intelligent FOB Price of Optical Directional Couplers



Overview

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Key Takeaways

The FOB price of intelligent optical directional couplers typically ranges from \$12 to \$150 per unit, depending on type, fiber mode, coupling ratio, and manufacturer. Price Overview

Fiber optic directional couplers vary widely in price based on specifications and quality:

- Single-mode couplers (SMF-28e, 1260–1620 nm, low excess loss, high directivity ≥ 55 dB) generally start around \$12–\$50 per unit for standard pigtail-style models, with higher-end or custom designs costing more .
- Multimode couplers (62.5/125 μ m fiber, 1x2, 2x2, 1x4, 1x8 configurations) typically range from \$20–\$150 per unit, depending on coupling ratio, housing, and connector type .



- Custom or intelligent couplers with integrated monitoring, low PDL, or specialized optical features may command higher FOB prices, often negotiated directly with manufacturers for bulk orders .

Factors Affecting FOB Pricing

- Coupling Ratio and Directivity: Higher precision (e.g., 50/50 ± 0.25 dB, directivity >55 dB) increases cost.
- Fiber Type: Single-mode fibers are generally more expensive than multimode fibers due to lower loss and higher performance.
- Connector Type: SC, FC/UPC, or pigtail vs. receptacle-style connectors affect unit cost.
- Volume and Supplier: Bulk orders often receive discounts; FOB pricing varies by manufacturer location and shipping terms.
- Customization: Devices combining circulators, polarizing splitters, or non-standard wavelengths increase price .

Supplier Examples

- Alibaba: SC connector fiber optic directional couplers start at \$12.82 per unit, suitable for wholesale and resale .
- AMS Technologies / LightComm: Single-mode all-band couplers with high stability and low PDL are available via quote, often for mid-range pricing depending on volume .
- Newport: Multimode couplers with ruggedized housing and multiple port configurations are priced higher, reflecting industrial-grade quality .

Practical Advice

For accurate FOB pricing, it is recommended to:

- Request individual quotes from suppliers, specifying fiber type, coupling ratio, and connector style.
- Consider volume discounts and shipping terms from the manufacturer's port.
- Evaluate technical specifications to ensure compatibility with your optical network requirements. By considering these factors, buyers can estimate FOB prices for intelligent optical directional couplers in the \$12-\$150 per unit range, with higher-end or custom devices potentially exceeding this range.

Article Content

Directional Couplers

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This report covers the global market for Directional Optical Couplers, which are passive fiber-optic components that

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Based on Gooch &Housego's (G&H) fused fiber technology, the FPB-X PM bow tie couplers demonstrate very low loss, high power

Directional Couplers

IPP's directional couplers offer some of the widest bandwidths at the highest power levels in the industry. Our unique designs allow

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Fiber tunable directional coupler (FTDC) has an all-fiber construction and provides the tuning range of 0 - 100 % coupling ratio with

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Pricing dynamics vary dramatically across the quality spectrum in the World directional optical couplers market.

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The optical directional coupler, analogous to the microwave element¹ of the same name, consists of parallel channel optical

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Directional couplers sample forward or reverse power with defined coupling and isolation to monitor VSWR, levels, and reflected

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Directional optical couplers are foundational passive components in fiber optic networks, performing the essential

Fiber Optic Couplers

Fiber Optic Coupler is a passive optical device that allows light signals to be split or combined within a fiber optic communication

Working Principle and Application of Fiber Directional Coupler

Fiber directional coupler is an optical device that can realize the distribution and combination between different optical fibers. It is

Amr AbdElKader

Postdoctoral Research Fellow, Kyushu University Assistant Professor, Alexandria University - Cited by 71 - Optical Wireless

What is a Directional Coupler? | Directional Coupler

A directional coupler designed to split power equally between two ports is called a hybrid coupler. In

Fiber Optic Couplers Selection Guide: Types, Features ...

Fiber optic couplers transmit light waves from the far visible region, red (630nm), to the near infrared region (1700nm). Within this

Optical Directional Couplers and their Applications

Optical directional couplers (ODCs) consist of two or more closely-located optical waveguides, whose modes can

A Review of Optical Coupler Theory, Techniques, and Applications

a) Top and cross-sectional views of the Si-wire directional coupler. b) Simulated results for E-field profiles for gaps of d

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Chapter 12.4.1

applications in EDFAs to combine the pump and signal power or to separate two wavelengths which are separated sufficiently, such

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This buyer's guide for fiber couplers provides technical background, comparison of major types, selection criteria, and an overview of

Fiber Couplers – optical fiber

Fiber couplers are fiber devices for coupling light from one or several input fibers to one or several output

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Designing Smarter Directional Couplers with Parametric Models Learn how to leverage IPKISS to optimize the design of directional

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Directional couplers # Directional couplers are two waveguides with a small gap between them that “couple,” or transfer, light from

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A compact directional coupler structure-based duplexer has been investigated, provided with the higher output power

Directional Coupler

A directional coupler is a fundamental component used in optical modulators and switches, consisting of two adjacent waveguides

Fiber Coupler

An optical fiber directional coupler is one of the most important inline fiber-optic components, often used to split and

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