

1×2 (2×2) Single-mode Fiber Coupler

Product Description

The 1×2 (2×2) single-mode fiber coupler fabricated by using single-mode fiber and strong-fused tapering process can divide the input light into two identical beams, and can support any splitting ratio as required. The product has passed GR-1209-CORE and GR-1221-CORE reliability tests and various military environmental assessment tests. Boasting stable performance and high reliability, the product has been applied in multiple national key projects.

Product Picture



Product Application

- Fiber optic amplifier
- FOG
- Fiber optic instrument
- Fiber optic sensor

Product Features

- High reliability
- High extinction ratio
- High impact resistance
- Low additional loss
- Good environmental stability

Performance Indicators At Room Temperature Range (+18°C~+28°C)

Parameters \ Performance level	Unit	Level A	Level B	Level C
Operation Wavelength	nm	1310/1550		
Splitting Ratio	/	50.0±3.0%	50.0±5.0%	50.0±10.0%
Additional Loss	dB	≤0.15≤0.35	≤0.50	≤0.60
Polarization Dependent Loss	dB	≤0.10		
Return Loss	dB	≥55.0		
Operation Temperature	°C	-50 ~ +80		
Storage Temperature	°C	-55 ~ +85		
Pigtail Length	m	>1 (or as required)		
Package Size	mm	Φ3.0×30、Φ2.4×3、Φ2.0×20		
Pigtail Specification	/	125/250μm or 80/165μm (single-mode fiber or according to user requirements)		

Performance Indicators At Operation Temperature (-40°C~+70°C)

Parameters \ Performance level	Unit	Level A	Level B	Level C
Variation In Splitting Ratio	/	≤3.0%	≤4.0%	≤5.0%
Variation In Additional Loss	dB	≤0.20	≤0.30	≤0.50