

1×2 (2×2) Multi-mode Fiber Coupler

Product Description

The 1×2 (2×2) multi-mode fiber coupler fabricated by using multi-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 transmission system
- Fiber optic sensor
- Fiber optic amplifier
- Fiber optic instrument

Product Features

- High reliability
- Small size
- 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
Operation Wavelength	nm	1480/1550	
Splitting Ratio	/	50.0±3.0%	50.0±5.0%
Additional Loss	dB	≤0.20	≤0.40
Return Loss	dB	≥55.0	
Operation Temperature	°C	-40~+70	
Storage Temperature	°C	-55~+85	
Pigtail Length	m	1.0±0.2 (or as required)	
Package Size	mm	φ3.0×38/φ2.4×38	
Pigtail Specification	/	125/250μm (multi-mode fiber)	

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

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