



## Hermetic Fiber Feedthrough (FT Series)

Rev 11B

### Description

AFR provides Hermetic Fiber Feedthrough by hermetically attaching gold plated metal ferrule to fiber cables base on different applications to guarantee excellent hermetic feedthrough performance. SM, MM, PM individual fiber or ribbon fiber available upon request. The hermetic feedthrough is commonly used in PLC module, LD packaging and integrated optics packaging for hermetic sealing purpose.

### Key Features

- Excellent Hermetic Feedthrough Performance

### Applications

- PLC Module
- LD Packaging
- Integrated Optics Packaging

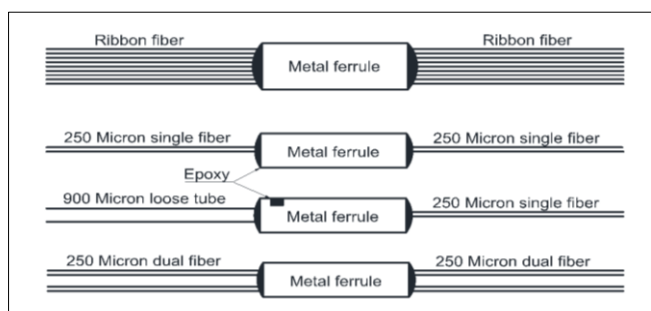
### Specifications

| Parameter                          | Unit                  | Value                |
|------------------------------------|-----------------------|----------------------|
| Max. Insertion Loss                | dB                    | 0.3                  |
| Max. Helium Leak Rate              | Pa. m <sup>3</sup> /s | $1.0 \times 10^{-9}$ |
| Min. Pull Strength                 | N                     | 10                   |
| Max. Average Optical Power         | mW                    | 300                  |
| Max. Soldering Temperature Allowed | °C                    | 200                  |
| Storage Temperature                | °C                    | - 40 to + 85         |

<sup>1</sup> IL is 0.3 dB higher for each connector added.

<sup>2</sup> Extinction Ratio  $\geq 23$  dB when fiber type is Polarization Maintaining fiber.

### Package Dimensions



### Ordering Information

FT-①-②②-③-④-⑤-⑥-⑦⑦-⑧

①: Ferrule Material

K - Gold Plated Kovar

S - Specify

②②: Number of Channels

01 - Single Channel

02 - Dual Channels

12- 12 Channels SS - Specify

③: Wavelength

O - 1310 nm

C - 1550 nm

S - Specify

④: Fiber Jacket

B - 250  $\mu$ m Bare Fiber

L - 900  $\mu$ m Loose Tube

S - Specify

⑤: Coating

AR - Anti-Reflective Coating

N - None

SS - Specify

⑥: Fiber length

1 - 1 m

1.5 - 1.5 m

SS - Specify

⑦⑦: Connector Type

FU - FC/UPC

FA - FC/APC

N - None

SS - Specify

⑧: Fiber Type

S - Singlemode Fiber

M - Multimode Fiber

R - Ribbon Fiber

S - Specify