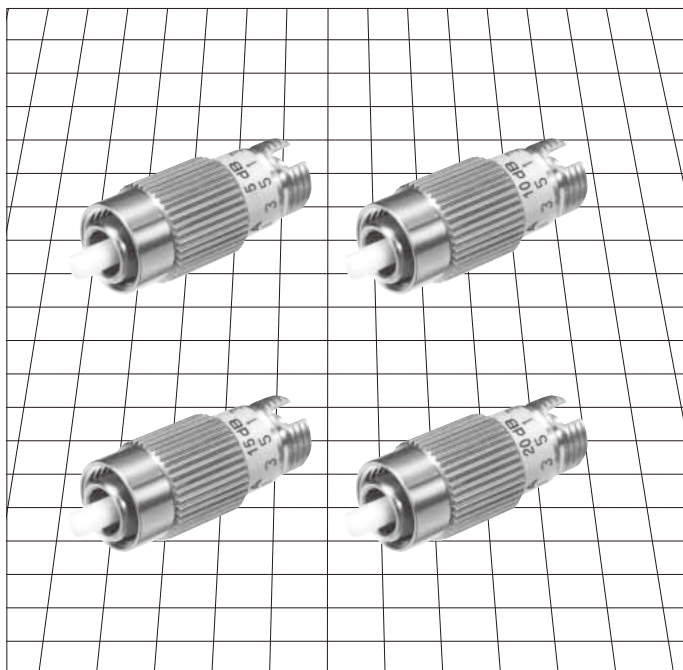


# FC Type Fixed Attenuators



## ■ Features

1. FC Type :Comply with IEC 61754-13 (JIS C 5970)
2. Maximum input power for SM :250mW
3. Polishing Type : AdPC(SM), PC(GI)
4. Dual wavelength (SM): 1310nm and 1550nm

Notice:

Plug key width: 2.1mm

Jack key width: 2.2mm

## ■ Applications

Power level adjustment of optical fiber communication networks.

## ■ Product Specification (For Single mode /For Multi mode)

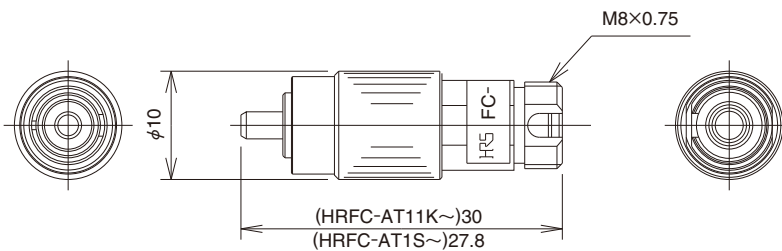
|         |                             |                                          |                           |                                         |
|---------|-----------------------------|------------------------------------------|---------------------------|-----------------------------------------|
| Ratings | Operating temperature range | -25°C to +70°C                           | Storage temperature range | -25°C to +85°C                          |
|         | Max. Input Power            | Single mode : 250mW<br>Multi mode : 10mW | Fiber type                | Single mode :SM<br>Multi mode:GI-50/125 |

| Item                          |                                                                                                                | Test Method                                                                                                                | Specifications                                                                                 |                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------|
|                               |                                                                                                                |                                                                                                                            | For Single mode                                                                                | For Multi mode     |
| Optical Characteristics       | Attenuation                                                                                                    | Wavelength 1310±30nm<br>Wavelength 1550±30nm                                                                               | See the attenuation table on the next page                                                     | Attenuation ±1.5dB |
|                               | Return Loss                                                                                                    | Wavelength 1310±30nm<br>Wavelength 1550±30nm                                                                               |                                                                                                | ≥ 40dB(AdPC)       |
| Mechanical Characteristics    | Adapter gauge holding force                                                                                    | Zirconia gauge of 2.499 ±0.0005 mm diameter.                                                                               | 2 to 3.9N                                                                                      | 2 to 5.9N          |
|                               | Durability (cycles, mating/unmating)                                                                           | 500 times                                                                                                                  | 1) Meets Attenuation/Return Loss requirements.<br>2) No visible dislocation of clamp or cable. |                    |
|                               | Vibration                                                                                                      | Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, acceleration of 98.1m/s <sup>2</sup> , 3 hours in each of the 3 axis. |                                                                                                |                    |
| Shock                         | Acceleration of 981 m/s <sup>2</sup> , 6 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis. |                                                                                                                            |                                                                                                |                    |
| Environmental Characteristics | Composite temperature -Humidity cyclic test                                                                    | Humidity : 90% to 96%<br>Temperature : -10°C to 65°C ,<br>Time : 240 hours(10 Cycles)                                      | No significant corrosion.                                                                      |                    |
|                               | Change of temperature                                                                                          | Temperature : -25°C to +70°C , 100 cycles,                                                                                 |                                                                                                |                    |
|                               | Dry heat                                                                                                       | 500 hours at +85°C                                                                                                         |                                                                                                |                    |
|                               | Cold                                                                                                           | 500 hours at -25°C                                                                                                         |                                                                                                |                    |
|                               | Salt mist                                                                                                      | 48 hours in a 5% concentration of salt mist                                                                                |                                                                                                |                    |

## Materials

| Part         | Material        |                 |
|--------------|-----------------|-----------------|
|              | For Single mode | For Multi mode  |
| Coupling     | Copper alloy    |                 |
| Body         | Stainless steel |                 |
| Ferrule      | Zirconia        |                 |
| Split sleeve | Zirconia        | Phosphor Bronze |

## FC Type Fixed Attenuator



### For Single mode (AdPC Polishing type, Maximum input power :250mW)

| Part Number        | CL No.          | Attenuation | Attenuation Tolerance | Return Loss | Wavelength            | Split sleeve | Fiber type | Label color |
|--------------------|-----------------|-------------|-----------------------|-------------|-----------------------|--------------|------------|-------------|
| HRFC-AT11K-A01(60) | CL820-8001-7-60 | 1dB         | ± 0.5dB               | ≥40dB       | 1310nm<br>&<br>1550nm | Zirconia     | SM         | Mauve       |
| HRFC-AT11K-A02(60) | CL820-8002-0-60 | 2dB         |                       |             |                       |              |            |             |
| HRFC-AT11K-A03(60) | CL820-8003-2-60 | 3dB         | ± 0.6dB               |             |                       |              |            |             |
| HRFC-AT11K-A04(60) | CL820-8004-5-60 | 4dB         |                       |             |                       |              |            |             |
| HRFC-AT11K-A05(60) | CL820-8005-8-60 | 5dB         | ± 10%                 |             |                       |              |            |             |
| HRFC-AT11K-A06(60) | CL820-8006-0-60 | 6dB         |                       |             |                       |              |            |             |
| HRFC-AT11K-A07(60) | CL820-8007-3-60 | 7dB         |                       |             |                       |              |            |             |
| HRFC-AT11K-A08(60) | CL820-8008-6-60 | 8dB         |                       |             |                       |              |            |             |
| HRFC-AT11K-A09(60) | CL820-8009-9-60 | 9dB         | ± 1.5dB               |             |                       |              |            |             |
| HRFC-AT11K-A10(60) | CL820-8010-8-60 | 10dB        |                       |             |                       |              |            |             |
| HRFC-AT11K-A15(60) | CL820-8011-0-60 | 15dB        |                       |             |                       |              |            |             |
| HRFC-AT11K-A20(60) | CL820-8012-3-60 | 20dB        |                       |             |                       |              |            |             |
| HRFC-AT11K-A25(60) | CL820-8013-6-60 | 25dB        |                       |             |                       |              |            |             |

### For Multi mode (PC Polishing type, Maximum input power 10mW)

| Part Number        | CL No.        | Attenuation | Attenuation Tolerance | Return Loss | Wavelength | Split sleeve       | Fiber type | Label color |
|--------------------|---------------|-------------|-----------------------|-------------|------------|--------------------|------------|-------------|
| HRFC-AT1S-B05A(60) | 820-0063-0-60 | 5dB         | ± 1.5dB               | ≥22dB       | 1310nm     | Phosphor<br>Bronze | GI-50/125  | Yellow      |
| HRFC-AT1S-B10A(60) | 820-0064-3-60 | 10dB        |                       |             |            |                    |            |             |
| HRFC-AT1S-B15A(60) | 820-0065-6-60 | 15dB        |                       |             |            |                    |            |             |
| HRFC-AT1S-B20A(60) | 820-0066-9-60 | 20dB        |                       |             |            |                    |            |             |

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