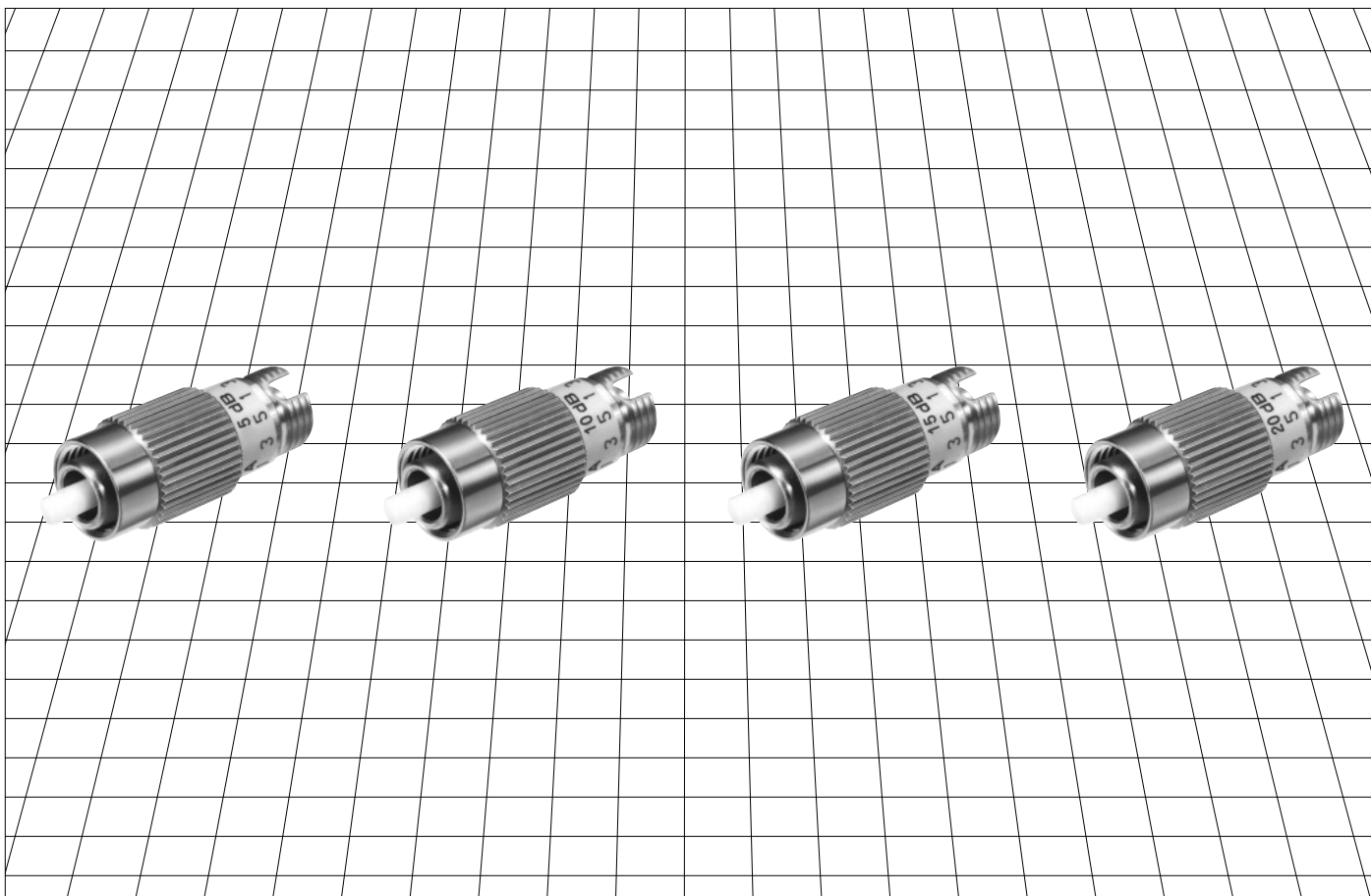


FC Type Fixed Attenuators



■ Features

1. Excellent operational qualities
2. Maximum input power : 250mW
3. Please contact us if you have any requests. Hirose will offer excellent solutions to meet your requirements

■ Important Notice

Plug key width : 2.1mm
Adapter key width : 2.2mm

■ Applications

Power level adjustment of optical fiber communication networks.

MU

SC

FC

Harsh
Environment

Attenuators

Terminators

Product Specifications

High Power FC-Type Fixed Attenuator (Max. input power : 250mW)

Ratings	Operating temperature range	-25°C to +70°C	Storage temperature range	-25°C to +85°C
	Max. Input Power	250mW	Fiber type	SM

Item		Test Method	Specifications
Optical Characteristics	Return Loss	Measurement at a point within the respective wavelength range of 1310 ± 30 nm and 1550 ± 30(DSF).	≥40dB
	Attenuation		See the attenuation table on the next page.
Mechanical Characteristics	Adapter gauge holding force	Zirconia gauge of 2.499 ±0.0005 mm diameter.	2.0N to 3.9N
	Durability (cycles, mating/unmating)	500 times	1) Meets Attenuation/Return Loss requirements. 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 ² , 3 hours in each of the 3 axis.	
	Shock	Acceleration of 981 m/s ² , 6 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis.	
Environmental Characteristics	Composite temperature -Humidity cyclic test	Temperature : -10°C to 65°C, humidity : 90% to 96% Time : 240 hours(10cycles)	No significant corrosion.
	Change of temperature	Temperature: -25°C → +70°C Time: 60 → 60 → 60 → 60 (Minutes) Cycles :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
Coupling	Copper alloy
Body	Stainless steel
Ferrule	Zirconia
Split sleeve	Zirconia

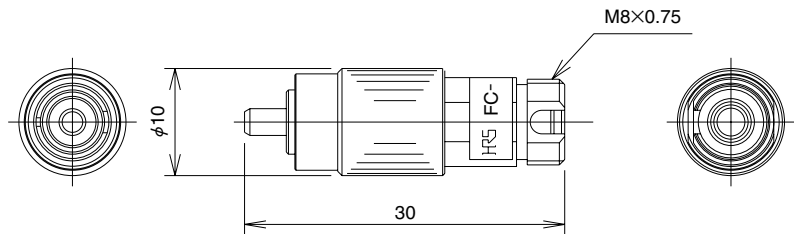
Ordering Information

HRFC - AT 11 K - A **

① ② ③ ④ ⑤ ⑥

① Series name : HRFC	④ Polishing code K: AdPC(≥40dB)
② Attenuator	⑤ Optical fiber type A: Single Mode
③ Specification series	⑥ Attenuation : 01,02,03,04,05,06, 07,08,09,10,15,20,25

●High Power SC-Type Fixed Attenuator (Max. input power : 250mW)



Part Number	CL No.	Attenuation	Attenuation Tolerance	Return Loss	Wavelength	Split sleeve	Fiber type
HRFC-AT11K-A01	820-8001-7	1dB	±0.5dB	≥40dB	1310nm 1550nm	Zirconia	SM
HRFC-AT11K-A02	820-8002-0	2dB					
HRFC-AT11K-A03	820-8003-2	3dB	±0.6dB				
HRFC-AT11K-A04	820-8004-5	4dB					
HRFC-AT11K-A05	820-8005-8	5dB					
HRFC-AT11K-A06	820-8006-0	6dB					
HRFC-AT11K-A07	820-8007-3	7dB	±0.7dB				
HRFC-AT11K-A08	820-8008-6	8dB	±0.8dB				
HRFC-AT11K-A09	820-8009-9	9dB	±0.9dB				
HRFC-AT11K-A10	820-8010-8	10dB	±1.0dB				
HRFC-AT11K-A15	820-8011-0	15dB	±1.5dB				
HRFC-AT11K-A20	820-8012-3	20dB					
HRFC-AT11K-A25	820-8013-6	25dB					

Note : Please take utmost care when inserting a FC plug into a FC attenuator. When applying excessive force to the FC plug or inserting in an odd angle, the zirconia sleeve within the attenuator might be damaged.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Hirose Electric:

[HRFC-AT5K-A05A\(40\)](#) [HRFC-AT5K-A10A\(40\)](#) [HRFC-AT5K-A15A\(40\)](#) [HRFC-AT5K-A20A\(40\)](#) [HRFC-AT1S-B10A\(61\)](#) [HRFC-AT1S-B15A\(61\)](#) [HRFC-AT1S-B20A\(60\)](#) [HRFC-AT11K-A01\(62\)](#) [HRFC-AT11K-A02\(62\)](#) [HRFC-AT11K-A03\(61\)](#) [HRFC-AT11K-A03\(62\)](#) [HRFC-AT11K-A04\(60\)](#) [HRFC-AT11K-A04\(61\)](#) [HRFC-AT11K-A04\(62\)](#) [HRFC-AT11K-A06\(61\)](#) [HRFC-AT11K-A06\(62\)](#) [HRFC-AT11K-A07\(62\)](#) [HRFC-AT11K-A08\(61\)](#) [HRFC-AT11K-A08\(62\)](#) [HRFC-AT11K-A09\(61\)](#) [HRFC-AT11K-A10\(61\)](#) [HRFC-AT11K-A10\(62\)](#) [HRFC-AT11K-A15\(61\)](#) [HRFC-AT11K-A25\(60\)](#) [HRFC-AT11K-A25\(61\)](#) [HRFC-AT11K-A09\(60\)](#) [HRFC-AT11K-A09\(62\)](#) [HRFC-AT11K-A08\(60\)](#) [HRFC-AT11K-A07\(61\)](#) [HRFC-AT1S-B05A\(61\)](#) [HRFC-AT11K-A02\(61\)](#) [HRFC-AT11K-A07\(60\)](#) [HRFC-AT11K-A01\(61\)](#) [HRFC-AT1S-B20A\(61\)](#) [HRFC-AT11K-A05\(62\)](#) [HRFC-AT11K-A05\(61\)](#) [HRFC-AT11K-A20\(61\)](#)