

# CFA series – Singlemode Adaptor Type (Female/Female) Attenuators

## Description:

The adaptor type singlemode attenuators are used directly on the ends of fiberoptic jumpers prior to installation in adapters. These attenuators provide a fixed level of attenuation and feature excellent return loss. Low wavelength dependency determines them for using in WDM and DWDM transmission systems. The CFA series attenuators are available in UPC or APC polish for SC, FC connectors and UPC for ST connectors.



## Features:

- Precise attenuation
- Return loss:
  - UPC 50 dB
  - APC 60 dB
- Low ripple broadband design for operation at wavelength 1250 to 1650 nm
- Attenuation range 1, 5, 10, 15, 20 and 30 dB
- High power endurance

## Application:

- Fiberoptic systems
- Receiver padding for optical receiver protection
- Optical power equalization
- Linearity and dynamic range testing in laboratory equipment

### Specifications:

Parameter	
Attenuation range	1, 5, 10, 15, 20, 30 dB
Operational wavelength	1250 to 1650 nm
Stability'	
attenuation range 1 dB	±0.5 dB
attenuation range 5 dB	±0.8 dB
attenuation range >10 dB	±10%
Return loss	
UPC polishing	≥50 dB
APC polishing	≥60 dB
Power durability	250 mW
Operating temperature	-25 to 70 °C
Storage temperature	-40 to 80 °C

1) -40 to +80°C over 10 cycles

### Ordering Code:

**CFA - XX - XXX / YYY**

Insertion Loss	
01	1 dB
05	5 dB
10	10 dB
15	15 dB
20	20 dB
30	30 dB

Adaptor Type	
UPC	FC/UPC
NPC	FC/APC*
USC	SC/UPC
NSC	SC/APC
USL	ST/UPC

\*) Note: NPC Seikoh Giken, JDSU, Methode standard  
(key width 2.05 mm)  
NPC215 SII standard - on demand  
(key width 2.15 mm)

### Samples of Attenuators:



CFA-05-UPC



CFA-05-UPC-USC



CFA-05-USC

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