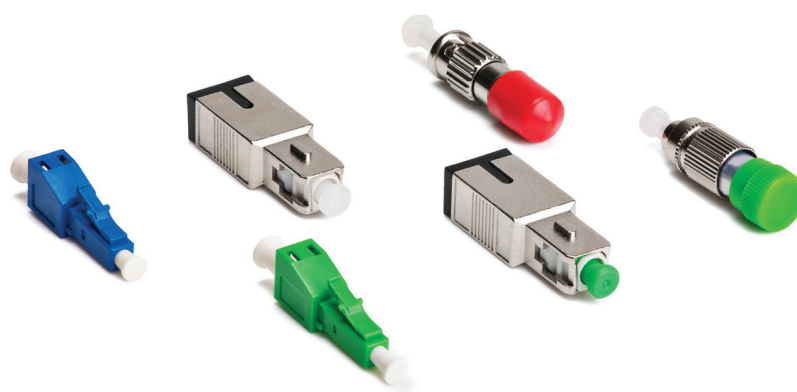


OPTICAL PAD ATTENUATORS

PDS-0129



DESCRIPTION

Wirewerks™ Optical Pad Attenuators are built with metal-ion doped optical fiber and are designed to provide consistent attenuation levels as well as maintaining polarization characteristics. Typical application for an Optical Pad Attenuator is to reduce the amount of optical power by a specific amount as to not saturate a receiver which can limit a system's performance. They also can be used to test the linearity and dynamic range of photo sensors and photo detectors in test and measurement applications.

FEATURES and BENEFITS

- Low back reflection, low insertion loss
- Low polarization dependent loss (PDL)
- Environmentally stable
- Contaminant and scratch free ferrule
- Available attenuation from 1 dB to 30 dB
- 100% tested in factory
- Manufactured with metal-ion doped optical fiber

APPLICATIONS

- Receiver padding
- CATV, LAN, telecommunications
- Test and instrument
- Optical power equalization
- WDM and DWDM systems channel balancing
- Optical transmission systems

CERTIFICATION and COMPLIANCE

GR-326-CORE

Generic Requirements for Single Mode Optical Connectors and Jumper Assemblies

GR-910-CORE

Generic Requirements for Fiber Optic Attenuators

GR-63-CORE

Network Equipment – Building System
Generic Requirements: Physical Protection

ASTM B117

Standard Practice for Operating Salt Spray (Fog) Apparatus

TIA-604 series

Fiber Optic Connector Intermateability Standard

TIA-455 series

Standard Test Procedure for Fiber Optic Components

IEC 60874-1

Connectors for Optical Fibers and Cables, Generic Standard

UL 94

Tests for Flammability of Plastic Material for Parts in Devices and Appliances

RoHS

Direction on Restriction of Hazardous Substances

PACKAGING and SHIPPING

Description
Clear Poly bag, 1 unit per bag

MECHANICAL CHARACTERISTICS

Parameter	Value
Plastic Material	UL 94 V-0 ABS high-impact thermoplastic
Fiber Material	Metal-ion doped optical fiber
Parameter	Value
Operating Temperature	-40°C (-40°F) ~ 90°C (194°F)
Storage Temperature	-40°C (-40°F) ~ 90°C (194°F)
Parameter	Value
Operating Band Bass	1250nm ~ 1625nm
Center Wavelength	1310nm and 1550nm
Attenuation Tolerance	1 to 10 dB : ±0.5 dB; 11 to 30 dB : ±5% of the nominal value
Return Loss UPC	≤-55 dB
Return Loss APC	≤-65 dB
PDL	≤0.1 dB

ORDERING
INFORMATION

Part Number Builder
WFA - A 1 CC D A - NN

Attenuator Type		Fiber Type		Interface Type		Interface Polish		Wavelength		Attenuation	
A	Optical Pad Attenuator (male to female)	1	Single mode	LC	LC	1	APC	A	Dual 1310/1550nm (single mode)	01	08
				SC	SC					1 dB	8 dB
				ST	ST	2	UPC			02	09
				FC	FC					2 dB	9 dB
										03	10
										3 dB	10 dB
										04	15
										4 dB	15 dB
										05	20
										5 dB	20 dB
										06	25
										6 dB	25 dB
										07	30
										7 dB	30 dB