



OZ OPTICS LTD.

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FIXED NEUTRAL DENSITY ATTENUATORS EXPANDED BEAM STYLE

FEATURES:

- Mode Independent Attenuation Level
- Rugged and Compact Size
- Pigtail and Receptacle Styles
- Removable Filter Holder
- Wide Wavelength Range
- Singlemode, Polarization Maintaining, and Multimode Fiber Versions
- Expanded Beam Technology
- **LOW COST!**



Receptacle Style Attenuator

APPLICATIONS:

- CATV, LAN and Telecommunications use
- Receiver Padding
- Test and Measurement
- Optical Power Equalization

SPECIFICATIONS:

- **Backreflection:** 25, 40dB for pigtail style
(Return Loss) 14dB for receptacle style
- **Attenuation range:** 5 to 30dB with 5dB increments
- **Available wavelengths:** 440-1625nm
- **Operating temperature:** -20°C to 65°C
- **Lead length:** Standard 1 meter on each end for pigtail style
- **Filter Size:** Up to 12.7mm diameter by 3mm thick. Custom sizes available on request



Pigtail Style Attenuator



Removable Filter Style Attenuator

ORDERING INFORMATION:

Receptacle Style:

Body Type: ND for non-removable filters
RND for removable filters

Type: 100 = Male connectors on both ends
200 = Female connectors on both ends
300 = Female connector on the input (X)
Male connector on the output (Y)

Connector Code: 3S = Super NTT-FC/PC
3U = Ultra NTT-FC/PC
3A = Angled NTT-FC/PC
8 = AT&T-ST
SC = SC
SCA = Angled SC
See Table 6 for other connectors

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ND-A-XY-W-a/b-F-N

Attenuation: 5 for 5dB
10 for 10dB
15 for 15dB
20 for 20dB
25 for 25dB

Fiber type: M = Multimode
S = Singlemode
P = Polarization maintaining

Fiber core/cladding sizes, in microns
9/125 for 1300/1550nm SMF
See Tables 1 to 5 for other standard fiber sizes

Wavelength: Specify in nanometers
(Example: 1550 for 1550nm)

Pigtail Style:

Body Type: ND for non-removable filters
RND for removable filters

Wavelength: Specify in nanometers
(Example: 1550 for 1550nm)

Fiber core/cladding sizes, in microns
9/125 for 1300/1550nm SMF
See Tables 1 to 5 for other standard fiber sizes

Fiber type: M = Multimode
S = Singlemode
P = Polarization maintaining

Backreflection level (Return Loss):
25, 40, 50, or 60dB
60dB is available for 1300nm
and 1550nm wavelengths only

ND-11-W-a/b-F-LB-XY-JD-L-N

Attenuation: 5 for 5dB
10 for 10dB
15 for 15dB
20 for 20dB
25 for 25dB

Fiber length, in meters, on each side of the device
Example: To order 1 meter of fiber at the input
and 7 meters at the output, replace L with 1,7

Fiber jacket type: 1 = 900 Micron OD hytrel jacket
3 = 3mm OD Kevlar reinforced
PVC cable
See Table 7 for other jacket sizes

Example: OZ part number: **ND-300-3ASC-1300-9/125-S-20**. 20dB fixed attenuator for 1300nm, 9/125 singlemode fiber. The input is a female receptacle for angled FC connectors, while the output is a male SC connector.

