

Fixed Attenuators

CORNING

Features and Benefits

Standard Fixed Attenuation Values of 1 dB up to 30 dB

Precision Polishing for Reduced Back Reflection

Available in a Variety of Connector Types

Polarization Insensitive

Standards

RoHS Free of hazardous substances according to RoHS2011/65/EU

Design and Test Criteria Product is qualified to Telcordia GR-910-CORE

Corning offers a complete line of high-performance fiber fixed in-line attenuators, patch coupling attenuators, tube-type attenuators, and loopback attenuators for a wide variety of applications. The 754 Series features extremely low return loss and durable polymer body design. Our attenuators use all fiber attenuation mechanism ensuring the devices are wavelength and polarization insensitive. Corning attenuators feature ruggedized packaging, compact housings, and a completely enclosed fiber system to ensure repeatable performance without concern for damage.



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Specifications

SINGLEMODE FIXED IN-LINE ATTENUATORS & PATCH COUPLING ATTENUATORS / 754 SERIES

Parameters	Specifications
Attenuation Tolerance	0-5 dB: ± 0.5 dB; > 5 dB: ± 10% of dB Value
Operational Wavelengths	1310 nm; 1550 nm; 1310 nm and 1550 nm (± 10 nm)
Operating Temperature	-40°C to +75°C

Ordering Information

Singlemode Fixed In-Line Attenuators / 754 Series

7 5 4 - 1 1 - E

1
2
3
4

1 Select Attenuation Value

01: 1 dB
02: 2 dB
03: 3 dB
05: 5 dB
10: 10 dB
15: 15 dB
20: 20 dB

2 Select Return Loss (Per Connector)

3: - 45 dB Min.
4: - 50 dB Min.
5: - 55 dB Min.
6: APC

3 Select Connector

B: ST Metal Body
L: LC/PC
K: LC/APC
P: FC/PC
Q: FC/APC
S: SC/PC
T: SC/APC
U: MU/PC
W: Slim MU/PC

E = Wavelength 1310 nm & 1550 nm

4 Select Customization

00. Standard
01: Short Type (LC Only)

Singlemode Fixed Patch Coupling Attenuators / 754 Series

7 5 4 - 6 1 - 0 0 0

1
2
3

1 Select Attenuation Value

00: 0 dB
01: 1 dB
02: 2 dB
03: 3 dB
05: 5 dB
10: 10 dB
15: 15 dB
20: 20 dB

2 Select Return Loss (Per Connector)

3: - 45 dB Min.
4: - 50 dB Min.
5: - 55 dB Min.
6: APC

3 Select Connector* (Male-Female)

1: FC-SC Flange
2: FC-SC Square
3: ST-SC Flange
4: SC-ST
5: SC-FC
6: SC-LC
8: SC-MU
9: LC-MU

These part numbers are specific to Corning Optical Communications OEM Solutions Business Unit. Please contact OEM sales at +1-408-736-6900 or oemsales@corning.com and visit www.corning.com/opcomm/oem for sales support.

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Specifications

SINGLEMODE FIXED TUBE TYPE ATTENUATORS / 754 SERIES	
Parameters	Specifications
Attenuation Tolerance	0-5 dB: ± 0.5 dB; > 5 dB: ± 10% of dB Value
Operational Wavelengths	Standard: 1310 nm; 1550 (± 10 nm) Wideband: 1310 nm; 1550 nm (± 40 nm) Dual Window: 1310 and 1550 nm (± 40 nm)
Operating Temperature	-40°C to +75°C

Ordering Information

Singlemode Fixed Tube Attenuators / 754 Series

7 5 4 - 4 -

1
2
3
4
5
6

1 Select Package Types

- 1: 250 mm, Tube
- 2: 900 mm, Tube
- 3: 900 mm, Ruggedized
- 4: 1.6 mm, Ruggedized
- 5: 3 mm, Ruggedized

2 Select Attenuation Value

- 01: 1 dB
- 05: 5 dB
- 10: 10 dB
- 15: 15 dB
- 20: 20 dB

3 Select Return Loss

- 3:- 45 dB Min.
- 4:- 50 dB Min.
- 5:- 55 dB Min.
- 6: APC

4 Select Connector

- 0: None
- B: ST Metal
- L: LC/PC
- K: LC/APC
- P: FC/PC
- Q: FC/APC
- S: SC/PC
- T: SC/APC
- U: MU/PC

5 Select Wavelength

- A: 1310 nm ± 10 nm
- B: 1310 nm ± 40 nm
- C: 1550 nm ± 10 nm
- D: 1550 nm ± 40 nm
- E: 1310 nm & 1550 nm ± 40 nm

6 Select Total Length (Use Decimeter)

- 05: 0.5 Meter
- 10: 1 Meter
- 99: 9.9 Meter

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Specifications

FIXED LOOPBACK ATTENUATORS / 754 SERIES	
Parameters	Specifications
Attenuation Tolerance	2 - 9 dB: ± 1 dB; 10 -15 dB ± 1.5 dB; > 15 dB ± 2 dB
Operational Wavelengths	850 nm ± 10 nm; 1310 nm ± 10 nm
Operating Temperature	-40°C to +75°C

Ordering Information

Fixed Loopback Attenuators / 754 Series

7 5 4 - 5 -

1
2
3
4
5

1 Select Fiber Type

- 1: SM²
- 2: MM, 62.5 mm¹
- 3: MM, 50 mm¹

2 Select Attenuation Value

- 02: 2 dB
- 05: 5 dB
- 10: 10 dB
- 15: 15 dB
- 20: 20 dB
- 25: 25 dB
- 30: 30 dB

3 Select Return Loss

- 3:- 45 dB Min.
- 4: - 50 dB Min.
- 5: - 55 dB Min.
- 6: APC

4 Select Connector

- 5: 12F MPO Female (MM)
- 6: 12F MPO Maile (MM)
- K: LC/APC
- M: MT-RJ (w/o Pin)
- S: SC/PC
- L: LC/PC
- N: MT-RJ (w/Pin)
- T: SC/APC

5 Select LC Loopback

- 000: Cable Type
- 101: Black Shell Cover (50 mm)
- 301: Green Back Shell Cover (APC)
- 501: Blue Back Shell Cover (SM)
- 701: Beige Back Shell Cover (62.5 mm)

Select MT-RJ Loopback

- 100: Vertical Version
- 200: Horizontal Version

Select SC Loopback

- 100: Black Back Shell Cover -Std.
- 200: Yellow Back Shell Cover
- 600: Orange Back Shell Cover
- N00: Other Color

SC Low Loss Loopback Attenuator

- 1. 754-5100-5S100, SM, IL ≤ 1.2 dB
- 2. 754-5200-0S100, 62.5 mm, IL ≤ 0.6 dB
- 3. 754-5300-0S100, 50 mm, IL ≤ 0.8 dB

Notes:

¹MM loopback attenuators are only available for 2 dB only, 850/1310 nm

²SM Wavelength is 1310 nm only

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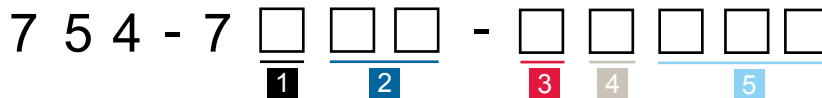
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Specifications

FIXED LOOPBACK ATTENUATORS / 754 SERIES - BIF (SM Only)	
Parameters	Specifications
Attenuation Tolerance	2 - 9 dB: ± 1 dB; 10 -15 dB ± 1.5 dB; > 15 dB ± 2 dB
Operational Wavelengths	850 nm ± 10 nm; 1310 nm ± 10 nm
Operating Temperature	-40°C to +75°C

Ordering Information

Fixed Loopback Attenuators / 754 Series - BIF (SM Only)



1 Select Fiber Type
1: SM

2 Select Attenuation Value
02: 2 dB
05: 5 dB
10: 10 dB
15: 15 dB
20: 20 dB
25: 25 dB
30: 30 dB

3 Select Return Loss
3:- 45 dB Min.
4: - 50 dB Min.
5: - 55 dB Min.
6: APC

4 Select Connector
K: LC/APC
M: MT-RJ (w/o Pin)
S: SC/PC
L: LC/PC
N: MT-RJ (w/Pin)
T: SC/APC

5 Select LC Loopback
000: Cable Type
301: Green Back Shell Cover (APC)
501: Blue Back Shell Cover (SM)
MT-RJ Loopback

Select MT-RJ Loopback
100: Vertical Version
200: Horizontal Version

Select SC Loopback
100: Black Back Shell Cover -Std.
200: Yellow Back Shell Cover
600: Orange Back Shell Cover
N00: Other Color

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Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-408-736-6900 • www.corning.com/opcomm/oem • Email: oemsales@corning.com

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