

In-Line Attenuators

Description:

The In-Line attenuators provide a fixed level of attenuation and feature excellent return loss. Low cost and performance determine them for universal using in optical networks.



Features:

- Return loss > 50 dB
- Insertion loss on customer's demands
- Fiber or cable version
- Pigtail with connector by specification

Application:

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

Specifications:

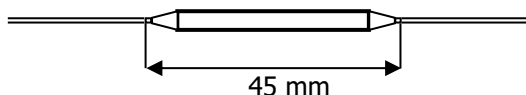
Loss	5, 10, 15, 20, 25, 30 dB $\pm 10\%$
Wavelength SM	1310 nm, 1550 nm, 1625 nm
Wavelength MM	1300 nm, 850 nm
Return loss	> 50 dB
Type	Fiber, Cable
Length	by specification
Operation temperature ¹	-40 to 75°C

Note: 1) conditioned by cable type: standard -5 to +50°C, extended on request

Dimension:

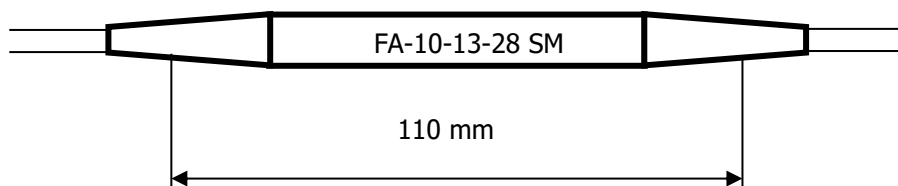
Fiber Attenuator

Length - 45 mm
 $\varnothing$ - 3 mm



Cable Attenuator

Length - 110 mm
 $\varnothing$ - 7 mm



Ordering Code:

FA(D) ¹ -				XX	-	XX	-	XX XX	-	AAA ²	-	XXX	-	(C) ³	-	YY		
(D) Duplex													Length (m)		BU	Blue		
															GN	Green		
															OG	Orange		
															YE	Yellow		
Insertion Loss																		
05																5 dB		
10																10 dB		
15																15 dB1		
other on request2																		
Optimized Wavelength																		
13																SM laser 1310 nm		
15																SM laser 1550 nm		
16																SM laser 1625 nm		
50																MM LED 850 nm		
Performance																		
09				fiber Ø 0.9 mm			OM2-5			MM 50/125 µm								
18				cable Ø 1.8 mm			OM1			MM 62.5/125 µm								
20				cable Ø 2.0 mm			S2D			SM 9/125 µm (G.652D)								
24				cable Ø 2.4 mm			S7A1			SM 9/125 µm (G.657A1)								
28				cable Ø 2.8 mm			S5X1			SM 9/125 µm (G.655X)								
LC																LC/PC		
ULC																LC/UPC		
NLC																LC/APC		
MU																MU/PC		
UMU																MU/UPC		
NMU																MU/APC		
PC																FC/PC		
UPC																FC/UPC		
NPC205																FC/APC standard Seikoh Giken, Methode, JDS		
NPC215																FC/APC standard Seiko		
SC																SC/PC		
USC																SC/UPC		
NSC																SC/APC		
SL																ST/PC		
SSL																ST/SPC		
PE2																LSH (E2000)/PC		
NE2S																LSH(E2000)/APC standard		
NE2P																LSH(E2000)/APC premium		
DIN																DIN/PC		
NDIN																DIN/APC		
MJF																MT/RJ - without pins		
MJM																MT/RJ - with guide pins		
SK2																SMA905		