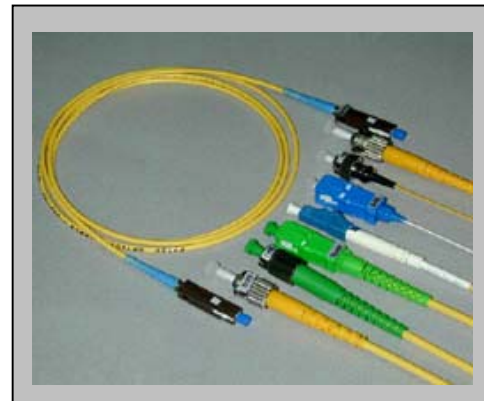


# In-Line Built-out Attenuator

## Description

GET Attenuators can be applied to adjust the power levels of signals in optical communications at the output of light sources, E/O converters and for testing the linearity or dynamic range of optical power meters.

GET Attenuators can also be used in optical amplifier systems to balance the gain across the different operating wavelengths. Cable options offered in 0.9mm, 2mm or 3mm with or without industry standard connectors.



## Features

- ❖ Precise attenuation value
- ❖ Excellent reflectance
- ❖ Perfect environmental stability and reliability
- ❖ Flawless end face
- ❖ Dual window (1310nm/1550nm)
- ❖ 1dB increment

## Applications

- ❖ Telecommunications
- ❖ CATV
- ❖ Subscriber loop
- ❖ FTTH
- ❖ LAN

## Product Specifications

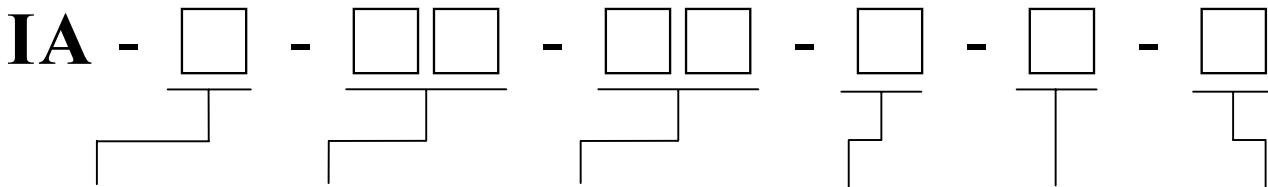
Specifications		Value
Wavelength		1310nm and 1550nm
Attenuation Range		1dB ~ 30dB
Band Pass		$\pm 50\text{nm}$
Attenuation Variation	<10dB	$\pm 0.5\text{dB}$
	$\geq 10\text{dB}$	$\pm 10\%$ $\pm 5\%$
Reflectance	SPC	50dB ~ 55dB
	UPC	>56dB
	APC	$\geq 67\text{dB}$
Operation Temperature		-40°C ~ 75°C
Storage Temperature		-50°C ~ 85°C

# Environmental Test

According to Telcordia Bellcore GR-910-core issue 2, December 1998

Test Item	Value	Average Attenuation / Standard deviation (dB)		Average Reflectance / Standard deviation (dB)		Sample Size	Result
		1310 nm	1550 nm	1310 nm	1550 nm		
New Product		15.30 / 0.26	15.39 / 0.28	58.30 / 0.87	59.60 / 0.45	11	Pass
Thermal Shock		15.34 / 0.24	15.45 / 0.25	58.10 / 0.94	59.30 / 0.51	11	Pass
Durability Test		15.39 / 0.27	15.44 / 0.23	58.10 / 0.81	59.40 / 0.44	11	Pass
Impact Test		15.41 / 0.21	15.47 / 0.27	58.02 / 0.75	59.10 / 0.54	11	Pass
Water Immersion		15.49 / 0.20	15.56 / 0.17	57.20 / 0.50	58.30 / 0.40	11	Pass
Uncontrolled Operating Test		15.50 / 0.07	15.53 / 0.06	57.97 / 0.76	58.83 / 0.54	11	Pass
Humidity/Condensation Cycling		15.82 / 0.06	15.87 / 0.04	57.97 / 0.81	58.83 / 0.84	11	Pass
Non-Operating Test		15.50 / 0.08	15.46 / 0.14	58.32 / 0.49	58.01 / 0.46	11	Pass
Vibration Test		15.41 / 0.13	15.45 / 0.19	58.23 / 0.50	58.09 / 0.65	11	Pass

## Ordering Information



Connector Type:
1 = SC/PC
2 = FC/PC
3 = SC/APC
4 = FC/APC
5 = LC/PC
6 = MU/PC
7 = ST/PC

Wavelength:
13 = 1310nm
15 = 1550nm
35 = 1310nm & 1550nm

Attenuation:	
01 = 1dB	08 = 8dB
02 = 2dB	09 = 9dB
03 = 3dB	10 = 10dB
04 = 4dB	15 = 15dB
05 = 5dB	20 = 20dB
06 = 6dB	25 = 25dB
07 = 7dB	30 = 30dB

Reflectance:
S = 55~50dB
U = >56dB
A = ≥67dB

Tolerance:
F = ±0.5 dB
O = 10%
P = 5%

Cable Dimension:
A = 0.9mm
B = 2.0mm
C = 3.0mm

Note:  
Tolerance should be ±0.5dB when Attenuation is below 10dB.



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