

Passive Optical Networks

Selective Attenuators



INTRODUCTION:

Operating wavelength and insertion loss of **FibraIn selective attenuators** can be chosen according to Customer's order. Moreover, the devices have low excess and polarization dependent losses. They can be used for instance to block the CATV signal while still being able to transmit 1310/1490 nm GPON signals. The attenuators are available in pipe (with bare fiber or 0.9 mm tube outputs) and blackbox (with bare fiber, 0.9 mm, or 2.0 mm tube outputs) casing types.

APPLICATIONS:

- Testing systems
- Optical telecommunication networks

FEATURES AND ADVANTAGES:

- Central wavelength can be selected in the whole telecom range (1260-1640 nm)
- Wide range of attenuation
- Low excess loss

TECHNICAL SPECIFICATIONS:

Parameter	Value
Central wavelength [nm]	1260-1640
Central wavelength accuracy [nm]	±5
Bandwidth [nm]	±9-30 depending on IL
Attenuation [dB]	from 1 to 30 ±10% (in dB)
Max. excess loss [dB]	1.0
Max. PDL [dB]	1.0
Operating temperature [°C]	10-40

REFERENCE SYSTEM:

Cat.	Quality	Fiber type	Central λ	Attn.	Casing	Output/input length	Output/input type	Conn. A	Conn. B
SOA-	G0	1 – G.652D	1260	1 – 1 dB	1 – pipe	05 – 0,5 m	0 – bare fiber	SC	SC
		2 – G.657A	1265	2 – 2 dB	2 – blackbox	1 – 1 m	09 – 0.9 mm tube	SCA	SCA
		x – other	1270	etc.		2 – 2 m	20 – 2.0 mm tube	FC	FC
			1275			etc.		FCA	FCA
			...					E20	E20
			1625					E2A	E2A
			1630					LC	LC
			1635					LCA	LCA
			1640					x – other	x – other
								xx – none	xx – none

Ordering example: SOA-G0-2-1520-24-1-05-0-xx-xx – Selective attenuator, G.657A fiber, 1520 nm central wavelength, 24 dB attenuation, pipe casing, 0.5 m of output/input bare fiber, no connectors.

Important notice

Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sales of the selling FibraIn subsidiary.