

SC/PC Attenuators Singlemode

High Quality Inline Wide Range Attenuators

The SC-connector with a 2,5mm ceramic ferrules and snap (push-pull) coupling is used in many telecom and datacom applications.

Environment Requirements

Novobit SC/PC attenuators meet category E for Extreme environment and may be used between -40 and + 85°C. Mechanical interface complies to IEC 61754-4 and optical interface to IEC 61755-3-1. ROHS compliant.



Performance Requirements

IEC 61755-3-1 describes optical performance requirements for grade B, C and D for optical connectors. Novobit offer grade B for our attenuators offering low losses.

IEC 61300-3-34 test results Novobit connectors*:

Grade	50%	97%	Comment
B	0.125	0.25	

Return Loss: -55dB

*result with Corning SMF-28 and similar fiber

Applications:

- Fine tuning network
- Reducing power in older fibers when using DWDM networks to increase fiber life time
- Improve SR when needed at fiber end

Specifications:

Operating wavelength	1250 – 1625nm
Attenuation levels	1, 2, 3, 4, 5, 6, 7, 8, 10, 15, 20
Attenuation accuracy	+/-0.5dB (1~2db)
	+/-0.75dB (3~7db)
	+/-0.1dB (9~25dB)
Operating Temperature	-40~+85°C
Return Loss	better -50dB
Housing Material	PEI
Sleeve	Ceramic
Ferrule	Ceramic

IEC 61753-3-1 performance standard tests:

IEC 61300-3-42	Adapter performance
IEC 61300-3-34	Attenuation (random mate)
IEC 61300-3-6	Return Loss
IEC 61300-2-1	Vibration
IEC 61300-2-2	Mating durability
IEC 61300-2-12	Impact (Method A)
IEC 61300-3-10	Allowable gauge retention force
IEC 61300-2-17	Cold
IEC 61300-2-18	Dry heat – High temp. endurance
IEC 61300-2-22	Change of temperature
IEC 61300-2-27	Dust
IEC 61300-2-26	Salt mist
IEC 61300-2-46	Damp heat cyclic
IEC 61300-3-4	Attenuation against ref. conn.
IEC 61755-3-1	End face geometry

