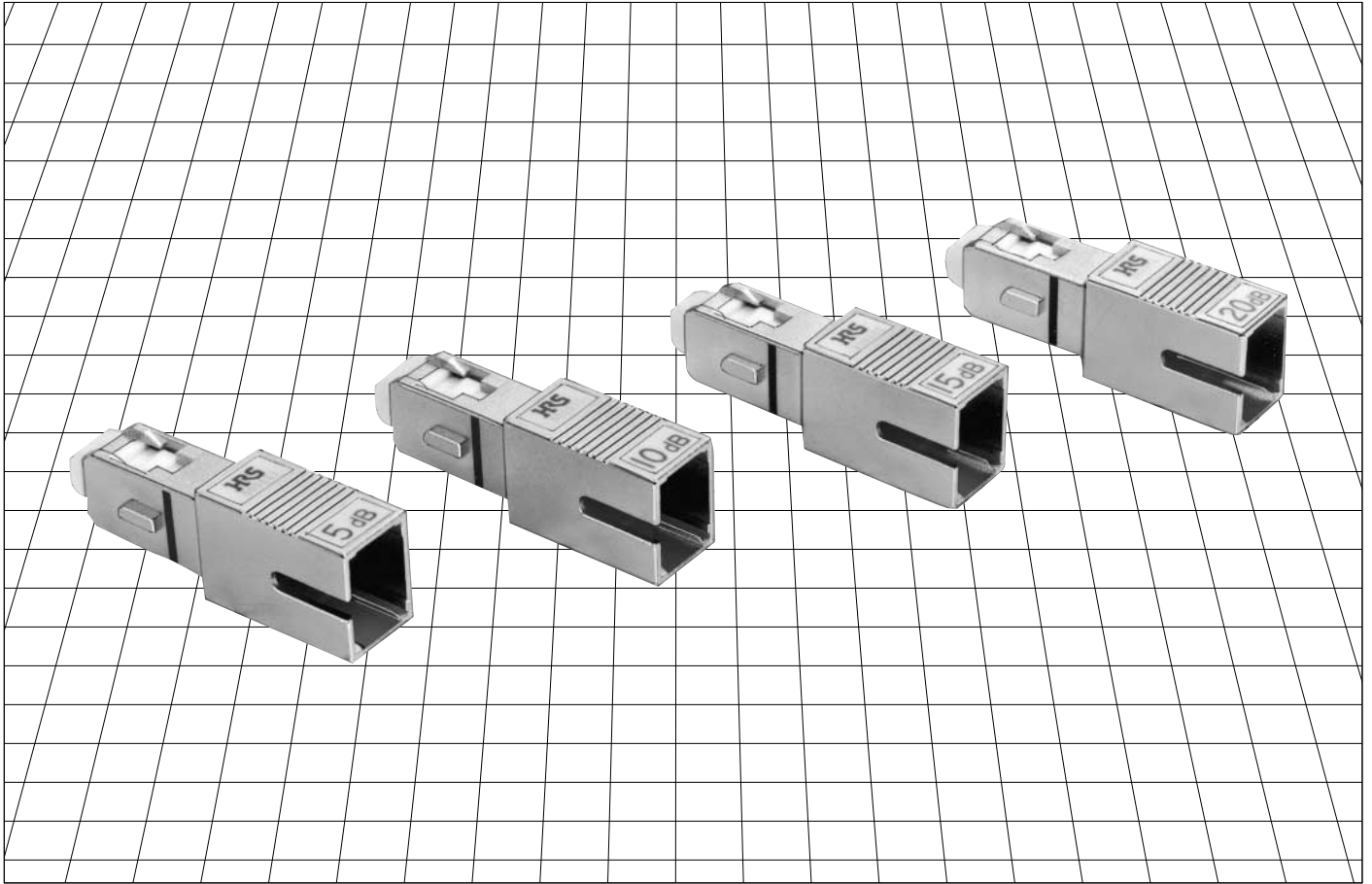


SC Type Fixed Attenuators



■ Features

1. Maximum input power for SM : 250mW
2. Attenuation level : 0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,20,25,30 dB
3. Dual wavelengths : 1310 nm and 1550 nm
4. User friendly push-pull mechanism
5. Please contact us if you have any requests. Hirose will offer excellent solutions to meet your requirements.

■ Applications

Power level adjustment of optical fiber communication networks.

Product Specifications

High Power SC-Type Fixed Attenuator (Max. input power: 250mW)

Ratings		Operating temperature range	-40°C to +75°C	Storage temperature range	-40°C to +85°C
		Max. Input Power	250mW	Fiber type	SM

Item		Test Method	Requirments
Optical Characteristics	Attenuation	Measurement at a point within wavelength of 1310 ± 30 nm and a point within wavelength of 1550 ± 30 nm.	0+0.4db 1,2±0.5dB 3,4,5,6±0.6dB 7,8,9,10,11,12,13,14±ATT×10%dB 15,16,20,25±1.5dB 30±2.5dB
	Return Loss		≥40dB
	Power test	Power : 250mw, Time : 100 hours Laser : LD(wavelength : 1470nm)	Change in attenuation : ±0.2dB
Mechanical Characteristics	Engagement and separation forces	Engagement and separation forces at 50mm/s.	Engagement force: ≤19.6 N Separation force: ≤19.6 N
	Gauge retention force	Zirconia gauge at φ2.499 ± 0.0005 mm.	2.0N to 3.9N
	Mating durability	Insertion and extraction number : 500	
	Vibration	3 hours at an amplitude of 1.5mm.with the frequency range 10 to 55Hz. In each of three mutually perpendicular plane.	
	Flex test	8.82N load,100 cycles Telcordia GR-910-CORE	
	Twist test	13.23N load,10 cycles Telcordia GR-910-CORE	
	Side test	12.25N load,90° angle,active Telcordia GR-910-CORE	
	Impact test	3 times in each of three mutually perpendicular axis with the Acceleration 981m/s ²	
Environmental Characteristics	Compasite Temperature-humidity Cyclic test	Humidity : 90% to 96% Temperature : -10°C to 65°C, Time : 480 hours(20 Cyclic)	
	Temperature cycling	Temp : -40→-40→80→80→80 to -40°C Time : 60→ 180 →60→ 180 min Cyclic : 100 cycles	
	Dry heat-high Temperature endurance	Temperature : 85°C Time : 500 hours	
	Cold	Temperature : -40°C Time : 500 hours	
	Salt Mist	Salt Mist : 5% Time : 48 hours	No significant corrosion.

Materials

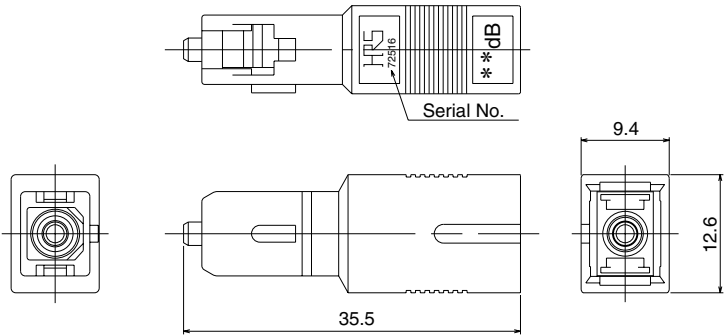
Part	Material
Body	Zinc alloy
Ferrule	Zirconia
Split sleeve	Zirconia

Ordering Information

HSC - **AT** **11** **K** - **A** ******
 ① ② ③ ④ ⑤ ⑥

① Series name : HSC	④ Polishing code K : AdPC (≥40dB)
② Attenuator	⑤ Optical fiber type A : Single Mode
③ Specification series	⑥ Attenuation : 00,01,02,03,04,05,06,07,08,09, 10,11,12,13,14,15,16,20,25,30

●High Power SC-Type Fixed Attenuator (Max. input power: 250mW)



Part Number	CL No.	Attenuation	Attenuation Tolerance	Return Loss	Wavelength	Split Sleeve	Fiber type
HSC-AT11K-A00	820-6001-6	0dB	+0.4dB	≥40dB	1310nm 1550nm	Zirconia	SM
HSC-AT11K-A01	820-6002-9	1dB	±0.5dB				
HSC-AT11K-A02	820-6003-1	2dB	±0.5dB				
HSC-AT11K-A03	820-6004-4	3dB	±0.6dB				
HSC-AT11K-A04	820-6005-7	4dB	±0.6dB				
HSC-AT11K-A05	820-6006-0	5dB	±0.6dB				
HSC-AT11K-A06	820-6007-2	6dB	±0.6dB				
HSC-AT11K-A07	820-6013-5	7dB	±0.7dB				
HSC-AT11K-A08	820-6014-8	8dB	±0.8dB				
HSC-AT11K-A09	820-6015-0	9dB	±0.9dB				
HSC-AT11K-A10	820-6008-5	10dB	±1.0dB				
HSC-AT11K-A11	820-6016-3	11dB	±1.1dB				
HSC-AT11K-A12	820-6017-6	12dB	±1.2dB				
HSC-AT11K-A13	820-6018-9	13dB	±1.3dB				
HSC-AT11K-A14	820-6019-1	14dB	±1.4dB				
HSC-AT11K-A15	820-6009-8	15dB	±1.5dB				
HSC-AT11K-A16	820-6020-0	16dB	±1.5dB				
HSC-AT11K-A20	820-6010-7	20dB	±1.5dB				
HSC-AT11K-A25	820-6011-0	25dB	±1.5dB				
HSC-AT11K-A30	820-6012-2	30dB	±2.5dB				