

**NEW**

# High Power SC-Type Fixed Attenuators

## HSC-AT 11K Series



### Features

- 1 . Max. Input Power: 250mW
- 2 . Wavelength: 1310nm and 1550nm.

CL No.	Product No.	Attenuation	Attenuation Tolerance	Return Loss	Wavelength	Split Sleeve Type	Fiber type
CL820-6001-6	HSC-AT11K-A00	0dB	+ 0.4dB	40dB	1310nm 1550nm	Zirconia	SM
CL820-6002-9	HSC-AT11K-A01	1dB	± 0.5dB				
CL820-6003-1	HSC-AT11K-A02	2dB	± 0.5dB				
CL820-6004-4	HSC-AT11K-A03	3dB	± 0.6dB				
CL820-6005-7	HSC-AT11K-A04	4dB	± 0.6dB				
CL820-6006-0	HSC-AT11K-A05	5dB	± 0.6dB				
CL820-6007-2	HSC-AT11K-A06	6dB	± 0.6dB				
CL820-6008-5	HSC-AT11K-A10	10dB	± 1.0dB				
CL820-6009-8	HSC-AT11K-A15	15dB	± 1.5dB				
CL820-6010-7	HSC-AT11K-A20	20dB	± 1.5dB				
CL820-6011-0	HSC-AT11K-A25	25dB	± 1.5dB				
CL820-6012-2	HSC-AT11K-A30	30dB	± 2.5dB				

## Product Specifications

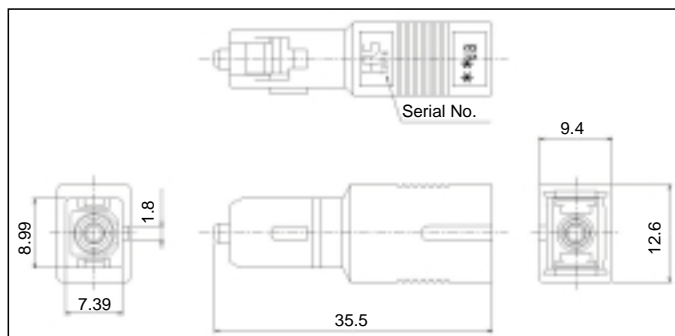
Ratings	Operating temperature range	- 40 to + 75	Storage temperature range	- 40 to + 85
	Max. Input Power	250mW	Applicable optical fibre	SM

	Item	Test Method ( JIS C 5961 )	Specifications
Optical Performance	Attenuation	Measure at either of the specified points within the respective wavelength range. 1310 ± 30nm, or 1550 ± 30nm	<ul style="list-style-type: none"> <li>• 0+0.4dB</li> <li>• 1.2 ± 0.5dB</li> <li>• 3,4,5,6 ± 0.6dB</li> <li>• 10 ± 1dB</li> <li>• 15,20,25 ± 1.5dB</li> <li>• 30 ± 2.5dB</li> </ul>
	Return Loss	Measure at any point within the respective wavelength range. 1310 ± 30nm, or 1550 ± 30nm at minimum specified value.	40 dB min.
Mechanical Performance	Mating/separation forces	Measurements taken when attenuator and corresponding connector are mated/separated.	Mating force: 19.6 N max. Separation force: 19.6 N max.
	Adapter gauge holding force	Zirconia gauge of 2.499 ± 0.0005mm diameter	2.0 N to 3.9 N
	Repetitive mating/separation	500 times	(1) Meets Attenuation/Return Loss requirements before and after the test. (2) No breakage, cracks, or parts dislocation.
	Repetitive bending	Bend angle: 0 °-> 90 ° to 90 °-> 0 ° 100 cycles (Telcordia standard GR-910-CORE compliant)	
	Twisting	Number of twist rotations: 2.5 rotations in each of the X and Y axis 10 cycles (Telcordia standard GR-910-CORE compliant)	
	90 ° Pull	Measure prior to, during, and after the test. (Telcordia standard GR-910-CORE compliant)	
	Vibration	Vibration range of 10 to 55 Hz in 3 directions, 3 hours each	
Shock	Acceleration of 981 m/sec <sup>2</sup> , in both directions of the 3 axis, 3 hours each(Total of 18 times)		
Environmental Performance	Humidity resistance (Temperature/ humidity cycles)	Temperature - 10 to 65 , humidity 90% to 96% 10 cycles	(1) Satisfaction of the attenuation/ Return Loss standards prior to and after the test. (2) No breakage, cracks, or parts loose ness.
	Temperature cycle	Temperature - 40 to 80 100 cycles	
	Heat resistance	Leave for 500 hours at 85	
	Cold resistance	Leave for 500 hours at - 40	
	Salt Mist	Leave for 48 hours in a 5% concentration of salt fog	No visible corrosion.

## Ordering Information

### HSC—AT 11 K—A \* \*

- (1) Series name: HSC
- (2) Attenuator
- (3) Specification series
- (4) Polishing code: K=AdPC
- (5) Optical fiber type: A=Single Mode
- (6) Attenuation



<b>* *</b>	00	01	02	03	04	05	06	10	15	20	25	30
Attenuation (dB)	0	1	2	3	4	5	6	10	15	20	25	30