

# Optical Variable Attenuators

HRLA Series



## ■ Features

### 1. Variable Attenuation

Attenuation can be set as desired within a range of attenuation of 1 to 6dB and 5 to 20dB.

### 2. The air gap system used in these attenuators provides effective attenuation.

### 3. These attenuators are of the plug-Jack type and offer superb operational qualities. (The Jack-Jack type is also available.)

### 4. We would be pleased to discuss your needs for other kinds of attenuators as well as other products.

## ■ Applications

Power level adjustment of optical fiber transfer backbones, and buffer.

## Product Standards

Rating	Operating temperature range	0°C~+30°C	Storage temperature range	-40°C~60°C
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	Item	Test Method (JIS C 5961)	Standard
Optical Performance	Reflection attenuation	1,300nm wavelength (LD)	40dB or greater
	Maximum attenuation	1,300nm wavelength (LD)	According to particular specifications.
Mechanical Performance	Split sleeve holding force of the adapter	φ2.499 ±0.0005mm zirconia gauge	2.0 to 5.9 N
Environmental performance	Temperature cycle	Temperature 0 → 0 to 30 → 30 → 30 to 0°C Time 60 → 60 → 60 → 60 min for 100 cycles	1) The standard for attenuation after test must be satisfied. 2) No damage, cracks, or part looseness

## Materials

Part Name	Material
Housing	Stainless steel
Ferrule	Zirconia
Split sleeve	Copper alloy

## Structure of the Product Number

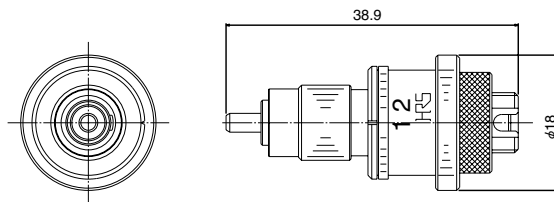
**HRLA - C 1 M L - 06 - PJ**

①      ② ③ ④ ⑤      ⑥      ⑦

①	Indicates the attenuator.
②	Form : C...Continuously variable attenuator
③	Optical connector : 1...Applicable to JIS C 5970 (F01)
④	Optical fiber : M...Applicable to SM-9.5/125
⑤	Specification wavelength band : L...1.0 to 1.8 μm
⑥	Maximum nominal attenuation (dB)
⑦	Classification : PJ...Plug-Jack type JJ...Jack-Jack type

## Optical Variable Attenuators

### SC-type Attenuators



HRS No.	Product Number	Maximum Attenuation	Attenuation Variable Range	Reflection Attenuation	Notes
CL820-2001-4	HRLA-C1ML-06-PJ	6dB of greater	5dB of greater	≥40dB	Plug-Jack type

※Please use the scale as a guide.