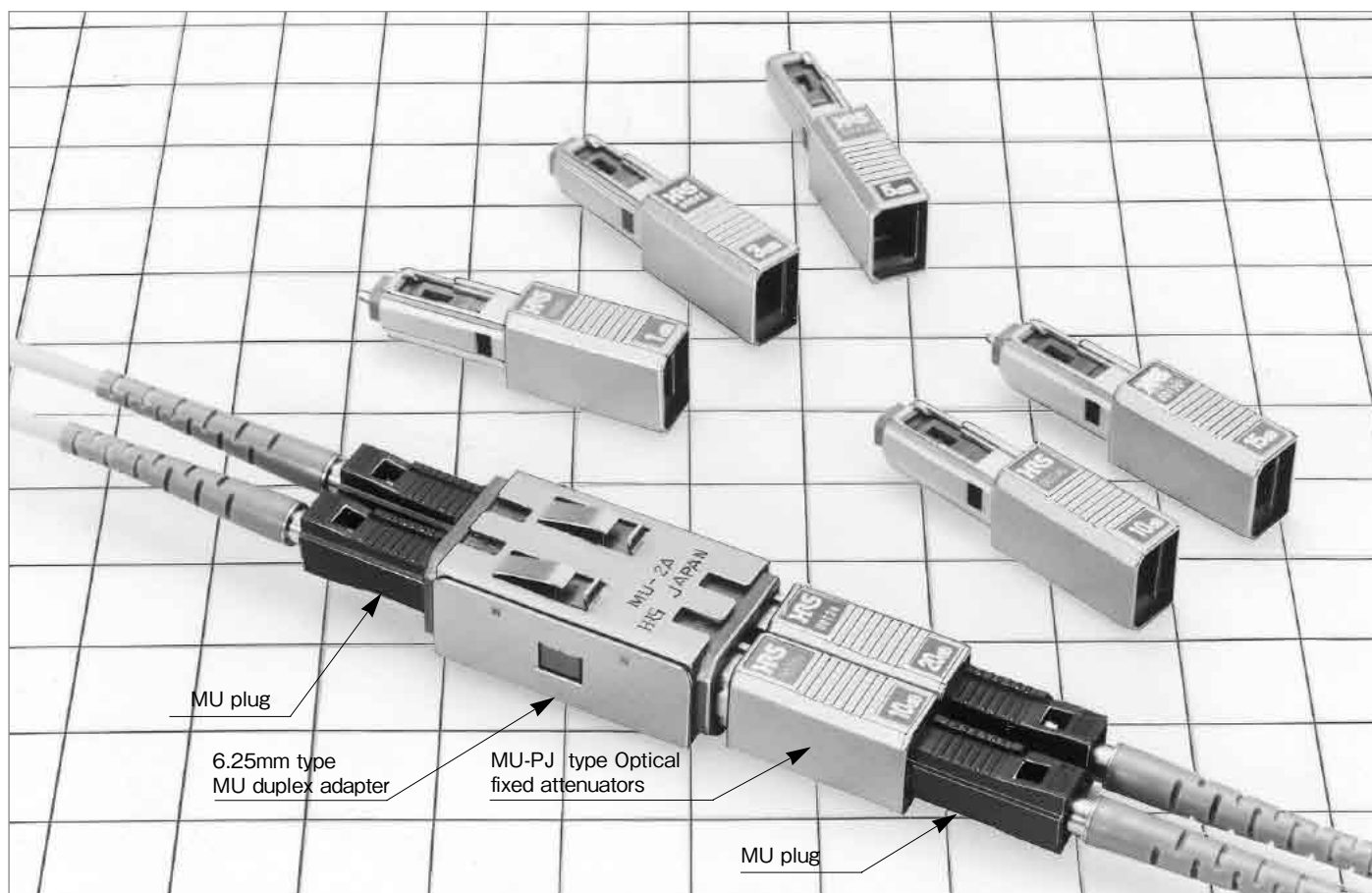


MU-PJ Type Optical Fixed Attenuators



■Features

1. Maximum input power for SM : 200mW
2. Guarantee to simplified MU plug coupling.
3. Guarantee to 6.25mm type MU Duplex Adapter.

Exclude standard 4.5mm type MU Duplex Adapter.

●Example of 6.25mm type MU Duplex Adapter

Part Number	CL No.
HMUA-2AK-1	CL710-0196-9-00

4. Attenuation guaranteed over a wide bandwidth of $1310 \pm 30\text{nm}$ and 1550 to 1620nm for WDM.
5. Attenuation deviation guaranteed over a wide bandwidth of $1310 \pm 30 \text{ nm}$ and 1510 to 1620 nm for WDM.
6. Attenuation level : 0,1,2,3,4,5,6,7,8,9,10,15,20 dB

■Applications

Power level adjustment of optical fiber communication networks.

■Product Specifications

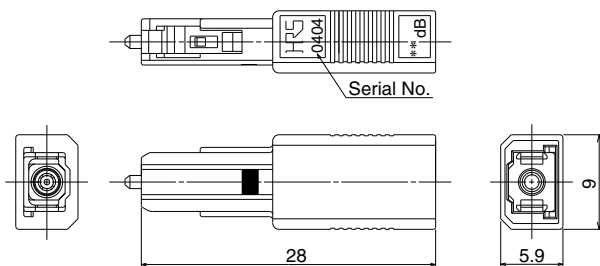
Ratings	Operating temperature range	-25°C to +70°C	Storage temperature range	-40°C to +85°C
	Max. Input Power	200 mW	Fiber type	SM

Item		Test Method	Specifications	
Optical Characteristics	Attenuation	Wavelength : 1510 to 1620nm 1310 ±30nm	Operating temperature	
			-10°C to +60°C	-25°C to +75°C
	Attenuation deviation (Wavelength dependance)	Difference between max and min attenuation value at the wavelength range of 1510 to 1620 nm and 1310 ±30nm	0	+0.4dB
			1,2	±0.5dB
			3,4,5	±0.8dB
			6,7,8,9,10	±1.0dB
Mechanical Characteristics	Return Loss	Measurement at a point within wavelength 1310 ±30nm and a point within wavelength 1550 ±30nm	15	±1.5dB
	Power test	Power : 200mW Time : 100 hours Laser : LD (Wavelength : 1470nm)	20	±2.0dB
	Engagement and separation forces	Engagement and separation forces at 50mm/s	0dB	: 0.4dB max.
	Gauge retention force	Zirconia gauge at ϕ 1.249 ±0.0005mm	1,2,3,4,5dB	: 0.5dB max.
	Mating durability	Insertion and extraction number : 500	6,7,8,9,10dB	: 0.75dB max.
Environmental Characteristics	Impact test	5 times in each of three mutually perpendicular axis with the acceleration 981 m/s ² . (Total : 30 times)	15dB	: 1.0dB max.
	Vibration	3 hours at an amplitude of 1.5mm with the frequency range 10 to 55 Hz in each of three mutually perpendicular plane	20dB	: 1.5dB max.
	Composite temperature-humidity cyclic test	Humidity : 90 to 96%, Temperature : -10 to 65°C, Time : 480 hours (20 cycles)	Engagement force : ≤ 20 N Separation force : ≤ 20 N	
	Change of temperature	Temperature: -40°C to +80°C, Time: 400 hours(100 cycles)	1) Insertion loss fluctuation after test: 0.2dB max. 2) No visible damage, cracks or part dislocation.	
	Dry heat	Temperature : 85°C, Time : 500 hours	1) Attenuation and return loss shall be satisfied before, during and after the test. 2) No breakage, crack or looseness on components.	
Terminators	Cold	Temperature : -40°C, Time : 500 hours	1) Attenuation and return loss shall be satisfied before and after the test. 2) No breakage, crack or looseness on components.	
	Salt mist	Salt mist : 5%, Time : 48 hours	No corrosion.	

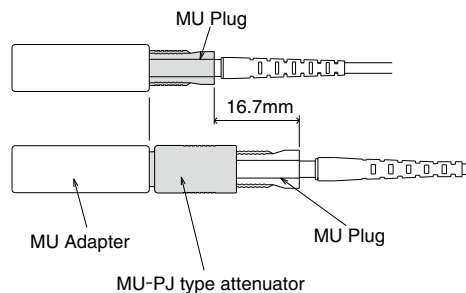
■Materials

Part	Material
Body	Zinc alloy
Ferrule	Zirconia
Split sleeve	Zirconia

MU-PJ Type Optical Fixed Attenuators

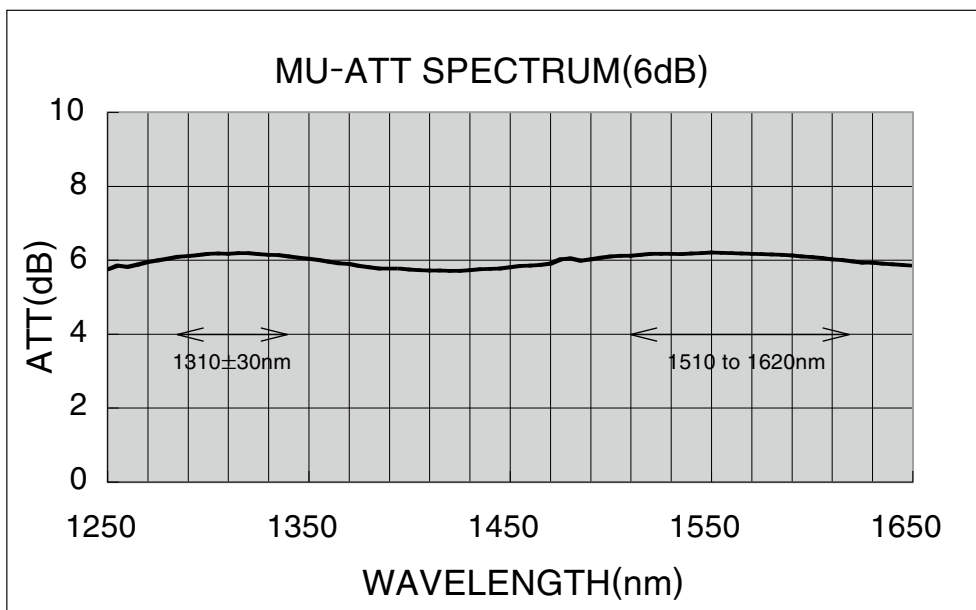


Need 16.7mm space



Part Number	CL No.	Attenuation	Attenuation Tolerance	Attenuation Deviation (Note 1)	Return Loss	Wavelength Bandwidth	Split sleeve	Fiber type
HMU-PJAT1K-A00R1(21)	828-0001-4-21	0dB	+0.4dB	Max 0.4dB	$\geq 40\text{dB}$	1310 $\pm$ 30nm 1510 to 1620nm	Zirconia	SM
HMU-PJAT1K-A01R1(20)	828-0002-7-20	1dB	$\pm 0.5\text{dB}$	Max 0.5dB				
HMU-PJAT1K-A02R1(20)	828-0003-0-20	2dB	$\pm 0.5\text{dB}$	Max 0.5dB				
HMU-PJAT1K-A03R1(20)	828-0004-2-20	3dB	$\pm 0.8\text{dB}$	Max 0.5dB				
HMU-PJAT1K-A04R1(20)	828-0005-5-20	4dB	$\pm 0.8\text{dB}$	Max 0.5dB				
HMU-PJAT1K-A05R1(20)	828-0006-8-20	5dB	$\pm 0.8\text{dB}$	Max 0.5dB				
HMU-PJAT1K-A06R1(20)	828-0007-0-20	6dB	$\pm 1.0\text{dB}$	Max 0.75dB				
HMU-PJAT1K-A07R1(20)	828-0008-3-20	7dB	$\pm 1.0\text{dB}$	Max 0.75dB				
HMU-PJAT1K-A08R1(20)	828-0009-6-20	8dB	$\pm 1.0\text{dB}$	Max 0.75dB				
HMU-PJAT1K-A09R1(20)	828-0010-5-20	9dB	$\pm 1.0\text{dB}$	Max 0.75dB				
HMU-PJAT1K-A10R1(20)	828-0011-8-20	10dB	$\pm 1.0\text{dB}$	Max 0.75dB				
HMU-PJAT1K-A15R1(20)	828-0016-1-20	15dB	$\pm 1.5\text{dB}$	Max 1.0dB				
HMU-PJAT1K-A20R1(20)	828-0021-1-20	20dB	$\pm 2.0\text{dB}$	Max 1.5dB				

Note 1: Attenuation deviation is equal to the attenuation maximum value minus the attenuation minimum value over a wide bandwidth of 1310 $\pm$ 30nm and 1510nm to 1620nm.



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