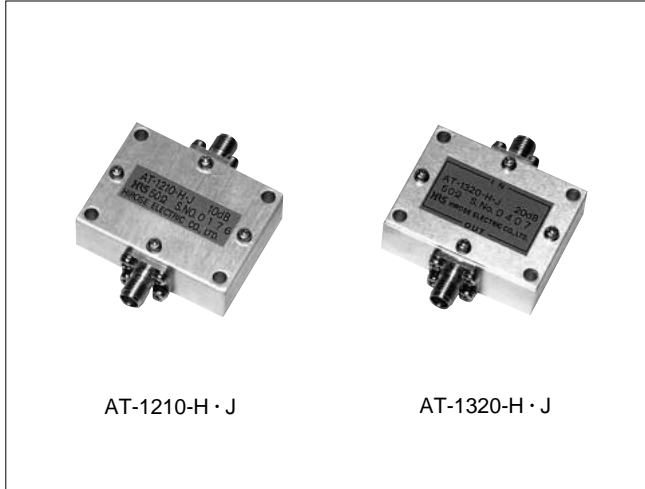


High Power Fixed Attenuators (Radiator Plate Mounting Type)

AT-1200 and AT-1300 Series



AT-1210-H·J

AT-1320-H·J

■Features

1.Small Size and Economical

Beryllia is used for the material of the resistance element to enable the terminator to be of small size and low cost.

2.High Power Capacity

Mounting these attenuators to a radiator plate permits the AT-1200 Series to be used at up to 30 W and the AT-1300 Series to be used at up to 50 W.

3.High Reliability

These attenuators show stable characteristics for environments of varying temperature, humidity, and gases.

■Product Specifications

Rating	Frequency range (NOTE) Characteristic impedance Maximum usable power (NOTE)	DC to 2.0 GHz 50Ω 30 to 50 W	Operating temperature range Operating relative humidity	-10°C to +65°C 95% or less
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NOTE: The frequency range and the maximum usable power will differ depending on the model.

Item	Standard	Conditions
1.Vibration resistance	No electrical disconnections of 1μs or greater No damage, cracks, or parts looseness	Frequency of 10 to 2000 Hz, overall amplitude of 1.52 mm, 98 m/s ² acceleration, in 3 axial directions, 2 hours each
2.Shock resistance	No electrical disconnections of 1μs or greater No damage, cracks, or parts looseness	490 m/s ² acceleration, half sine wave, in 3 axial directions, 3 times each
3.Temperature cycle	No damage, cracks, or parts looseness	(-55°C: 30 min.→5 to 35°C: Within 15 min.→85°C: 30 min →5 to 35°C: Within 15 min.) for 200 cycles

●The test method conforms to MIL-STD-202.

●Please see the specification items for details concerning the amount of attenuation and the VSWR.

■Materials

Part	Material	Processing
Connector external cladding	Stainless steel	Passivated
External cladding	Aluminum	Conductive white alumite
Female contacts	Beryllium copper	Gold plating
Insulation	Teflon	—
Attenuation element	Metal film	—

■Product Number Breakdown

AT - **12** **10** - **H·J**

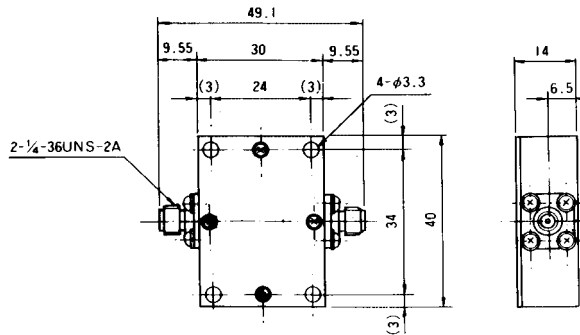
① ② ③ ④

① AT: Indicates a fixed attenuator.	③ Amount of attenuation (Examples) 10 : 10dB 20 : 20dB
② Indicates the Series Name (Maximum Usable Power) 12: HRM type plug - jack 13: N type plug - jack	④ Coupling Portion H·J : SMA type jack - jack N·H : N type jack - SMA type jack

■ Specifications

Model No.	(GHz) Frequency Range	(dB) Attenuation	V.S.W.R. (Max)	(Ω) Impedance	(W) Power	(°CMax) Heat Sink Temperature at Maximum Load	Connectors	(g) Weight
AT-1210-H · J	DC~1	10±0.5	1.2	50	30W(CW)	+65	HRM-J · J	54
AT-1220-H · J	DC~1	20±0.5	1.2	50	30W(CW)	+65	HRM-J · J	54
AT-1310-H · J	DC~2	10±0.5	1.2	50	50W(CW)	+65	HRM-J · J	54 ※
AT-1320-H · J	DC~2	20±0.5	1.2	50	50W(CW)	+65	HRM-J · J	54 ※

■ External Dimensions Diagrams



AT-1200-H · J
AT-1300-H · J

※The AT-1300 Series has input and output directivity.

■ Typical Data

