High Power Fixed Attenuators (Radiator built-in)

AT-1000 and AT-1100 Series



■Features

1.Small Size and Economical

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

2.Connectors Used

In the coupling portion, the AT-1000 Series has an SMA type plug-jack and the AT-1100 Series has an N type plug-jack.

3. High Reliability

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

■Product Specifications

Ratings	Frequency range Characteristic impedance Maximum Input Power	DC to 8.0 GHz 50 ohms 10W	Operating temperature range Operating relative humidity	-10°C to +65°C 95% Max.
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Item	Standard	Conditions		
1.Vibration	No electrical discontinuity of 1 μ s or more	Frequency of 10 to 2000 Hz, overall amplitude of 1.52 m acceleration of 98 m/s² for 2 hours in each of 3 directions		
2.Shock	No damage, cracks, or parts dislocation	Acceleration of 490 m/s², sine half-wave waveform, 3 cycles in each of the 3 axis		
3.Temperature cycle	No damage, cracks, or parts dislocation	Temperature: $-55^{\circ}\mathbb{C} \to +15^{\circ}\mathbb{C}$ to $+35^{\circ}\mathbb{C} \to +85^{\circ}\mathbb{C} \to +15^{\circ}\mathbb{C}$ to $+35^{\circ}\mathbb{C}$ Time: $30 \to 15$ max. $\to 30 \to 15$ max. (Minutes) 5 cycles		

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

■Materials

Part	Material	Finish	
Connector Body (Note)	Stainless steel	Passivated	
Insulator	PTFE		
Male contacts	Brass	Gold plating	
Female contacts	Beryllium copper	Gold plating	
Outer conductor	Aluminum	Nickel plating	
Coupling (Note)	Stainless steel	Passivated	
Radiator	Aluminum	Black alumite	
Attenuation element	Metal film		

Note: Nickel plated brass is used for the body in the AT-1100 Series.

■Ordering Information

AT - 10 01 (40)

AT: Indicates a fixed attenuator	Attenuation			
	01: 1dB			
2 Indicates the Series Name (Coupling Portion)	03: 3dB			
10: SMA type plug - jack	10: 10dB			
11: N type plug - jack	20: 20dB			
	4 (40): RoHS compliant			



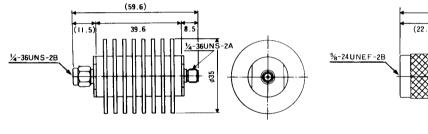
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

All non-Rohamphoto have dearding retigned by the dispersion of contact your Hirose sales representative.

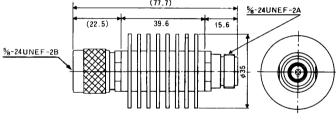
■Specifications

Part Number	Frequency Range (GHz)	Attenuation (dB)	V.S.W.R. (Max)	Impedance (ohms)	Power (W)	Connectors	Weight (g)	RoHS
AT-1001(40)	DC~8	1±0.5	1.3	50	10	HRM-J·P	80	
AT-1002(40)	DC~8	2±0.5	1.3	50	10	HRM-J·P	80	
AT-1003(40)	DC~8	3±0.5	1.3	50	10	HRM-J·P	80	
AT-1006(40)	DC~8	6±0.7	1.3	50	10	HRM-J · P	80	
AT-1010(40)	DC~8	10±1.0	1.3	50	10	HRM-J·P	80	YES
AT-1020(40)	DC~8	20±1.2	1.3	50	10	HRM-J·P	80	TES
AT-1103(40)	DC~8	3±0.5	1.3	50	10	H-J·P	124	
AT-1106(40)	DC~8	6±0.7	1.3	50	10	H-J·P	124	
AT-1110(40)	DC~8	10±1.0	1.3	50	10	H-J·P	124	
AT-1120(40)	DC~8	20±1.2	1.3	50	10	H-J·P	124	

■External Dimensions



AT-1000 Type



AT-1100 Type

■Typical Data

