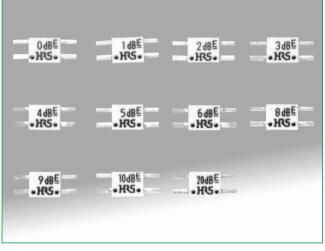
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

Stripline Mounting Fixed Attenuators

AT-2300 Series



Features

1. Wide Range of Variations for Each Type of Attenuator

Attenuation levels available in 1 dB steps from 0 to 6 dB and from 8 to 10 dB, and 20 dB for a total of 11 types of variations.

Product Specifications

Ratings	Frequency range Characteristic impedance Maximum input power	DC to 2.5GHz (Note) 50 Ω 1W	Operating temperature Operating humidity	-10℃ to +65℃ 95% max.
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Note: DC to 600MHz for AT-2320.

Item	Requirement	Conditions			
1.Vibration	No electrical discontinuity of 1 μ or more. No damage, cracks, or parts dislocation.	Frequency of 10 to 2000 Hz, overall amplitude of 1.5mm, acceleration of 98m/s ² , 2 hours in each of the 3 directions.			
2.Shock		Acceleration of 490m/s ² , sine half-wave waveform, 3 cycles in each of the 3 axis.			
3.Temperature cycle		Temperature : -55° $\rightarrow +15^{\circ}$ to $+35^{\circ}$ $\rightarrow +85^{\circ}$ $\rightarrow +15^{\circ}$ to $+35^{\circ}$ Time: 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 (Minutes)5 cycles			

The test method conforms to MIL-STD-202.

Materials / Finishes

Component	Material	Finish		
Attenuation element	Metal film			
Tab	Copper	Tin-lead plating		

Ordering information

$\frac{\text{AT}}{2} - \frac{23}{2} \frac{01}{6} \frac{(40)}{4}$

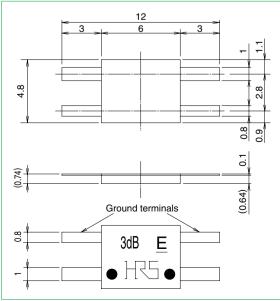
*Each attenuator is supplied in individual package

(D	AX:Fixed	atte	nuator					
Q	2	Series name :2300 Series							
	3	Attenuation							
	00-(0): 0 dB (Through)								
		01		:1dB					
		06	6	: 6dB					

4 (40): RoHS Compliant

Dimensions



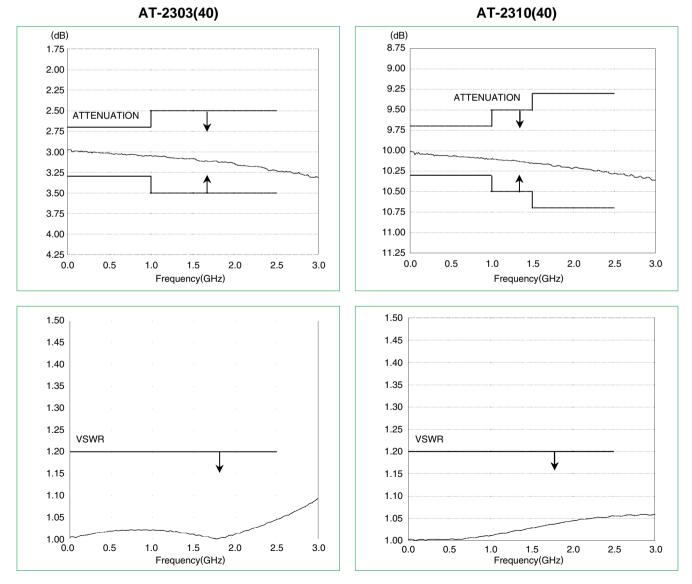


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■Specifications

	Attenuation (dB)		V.S.W.R(Max)	Characteristic	Dowor	Mounting surface	Maight	
Part number	DC~ 1,000MHz	1,000~ 1,500MHz	1,500~ 2,500MHz	DC~2,500MHz	C haracteristic Impedance (Ω)	Power (W)	temperature (°C Max.) at time of maximum input power	Weight (g)
AT-2300-(0)(40)	0+0.3	0 ^{+0.5}		1.2	50	1	+85	0.2
AT-2301(40)	1±0.3	1±0.5		1.2	50	1	+85	0.2
AT-2302(40)	2±0.3	2±0.5		1.2	50	1	+85	0.2
AT-2303(40)	3±0.3	3±0.5		1.2	50	1	+85	0.2
AT-2304(40)	4±0.3	4±0.5		1.2	50	1	+85	0.2
AT-2305(40)	5±0.3	5±0.5		1.2	50	1	+85	0.2
AT-2306(40)	6±0.3	6±0.5		1.2	50	1	+85	0.2
AT-2308(40)	8±0.3	8±0.5		1.2	50	1	+85	0.2
AT-2309(40)	9±0.3	9±0.5		1.2	50	1	+85	0.2
AT-2310(40)	10±0.3	10±0.5 10±0.7		1.2	50	1	+85	0.2
AT-2320(40)	20±1.5(DC~600MHz)			1.2(DC~600MHz)	50	1	+85	0.2

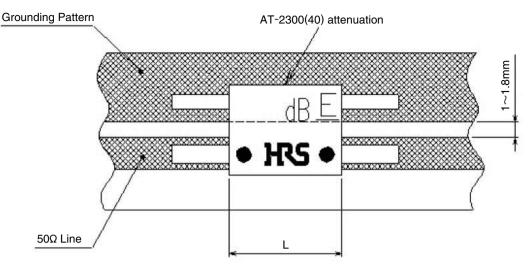
Typical data



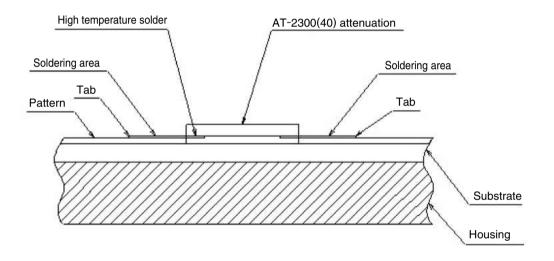


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Recommended Mounting Pattern



* The dotted line portion indicates the position of the pattern.



* Set interval L of the signal pattern to 6 mm and interval S of the signal pattern and ground pattern to 1 to 1.8 mm.

 $\ensuremath{\ast}$ Press the red seal onto the microstrip line surface and solder the tab.

* Tab Soldering Conditions

Soldering iron tip temperature: 260 to 290 $^\circ\!\!\!C$

Time: Within 5 seconds

* Note that althrough the high frequency characteristics will be somewhat degraded, please attach the tab with some slack in order to improve the thermal reliability.