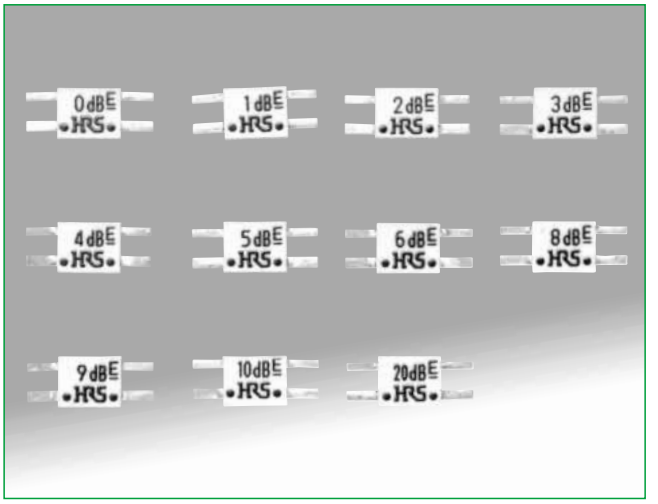
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Stripline Mounting Fixed Attenuators

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.

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/s², 2 hours in each of the 3 directions.
2.Shock		Acceleration of 490m/s², sine half-wave waveform, 3 cycles in each of the 3 axis.
3.Temperature cycle		Temperature : -55℃ → +15℃ to +35℃ → +85℃ → +15℃ to +35℃ Time : 30 → 2 to 3 → 30 → 2 to 3 (Minutes) 5 cycles

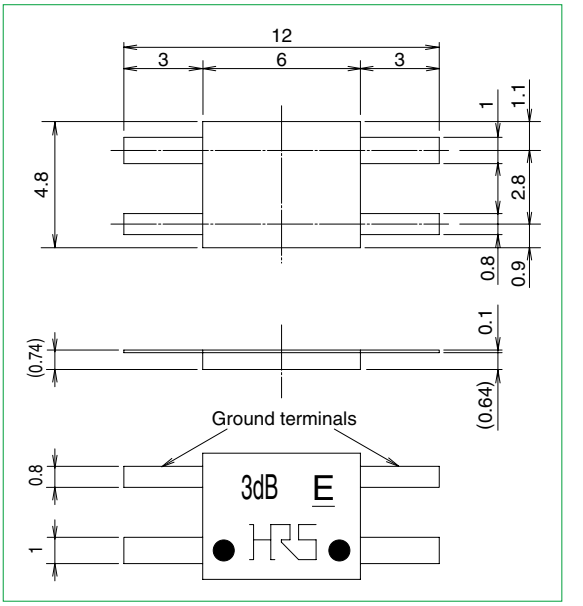
The test method conforms to MIL-STD-202.

■Materials / Finishes

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

■Dimensions

AT-2303 shown



■Ordering information

AT-23 01 (40)

❶ ❷ ❸ ❹

*Each attenuator is supplied in individual package

❶	AX:Fixed attenuator
❷	Series name :2300 Series
❸	Attenuation 00-(0) : 0 dB (Through) 01 : 1dB 06 : 6dB
❹	(40): RoHS Compliant

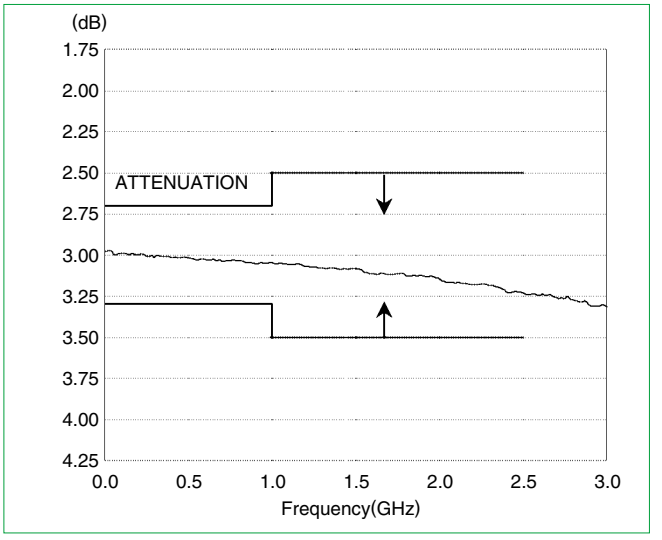
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■Specifications

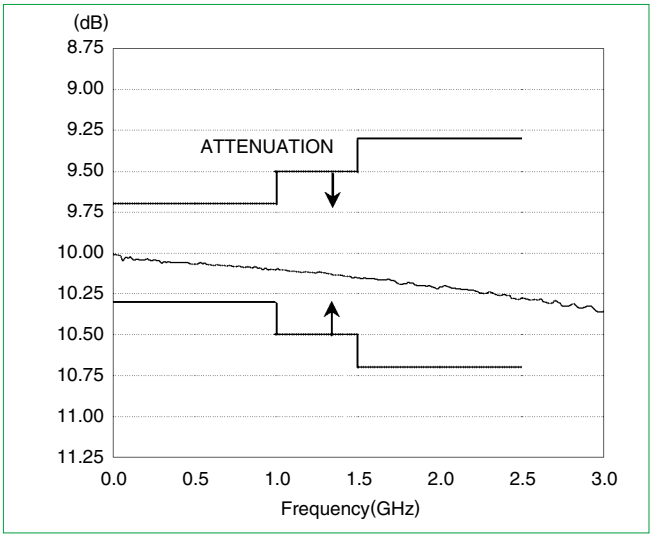
Part number	Attenuation (dB)			V.S.W.R(Max)	Characteristic Impedance (Ω)	Power (W)	Mounting surface temperature (℃ Max.) at time of maximum input power	Weight (g)
	DC～1,000MHz	1,000～1,500MHz	1,500～2,500MHz	DC～2,500MHz				
AT-2300-(0)(40)	$0^{+0.3}_{0}$	$0^{+0.5}_{0}$		1.2	50	1	+85	0.2
AT-2301(40)	1±0.3	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

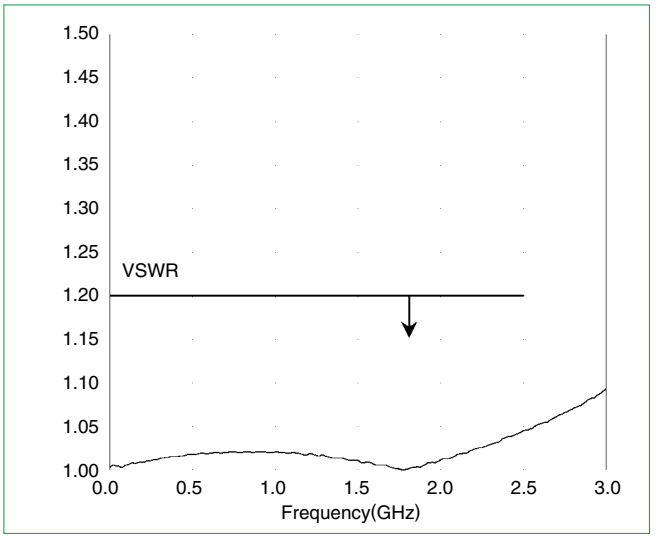
■Typical data

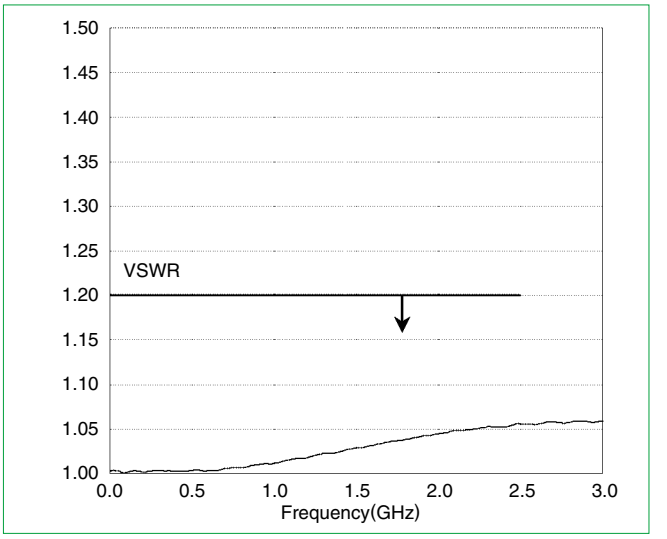
AT-2303(40)



AT-2310(40)

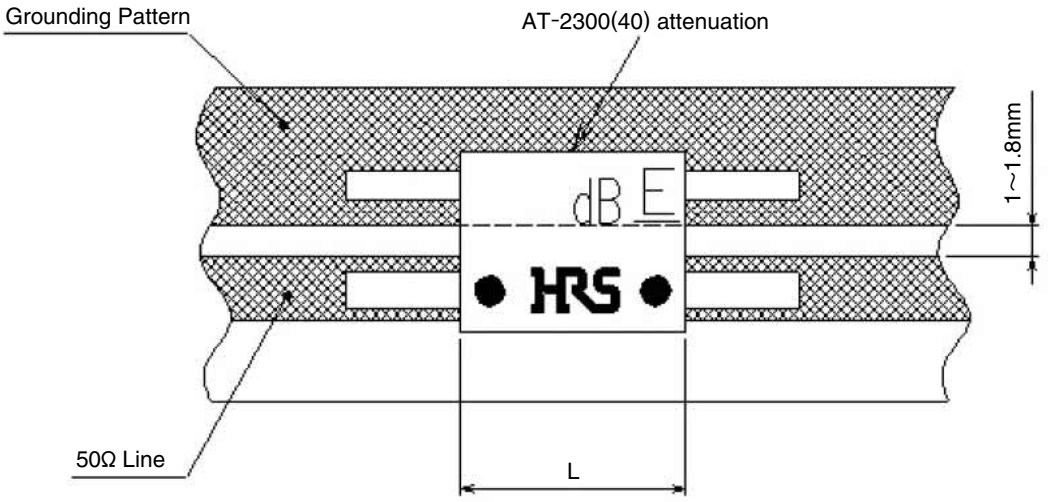




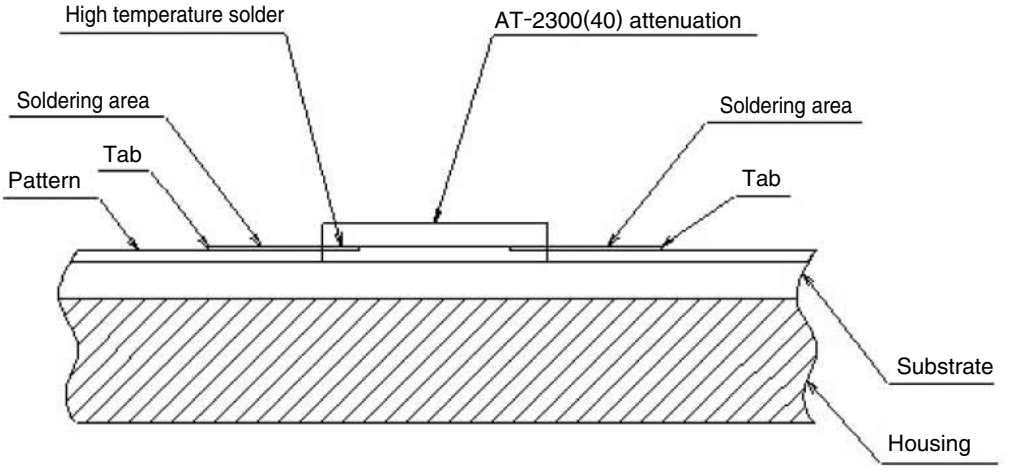


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■Recommended Mounting Pattern



✻ 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.
✻ Press the red seal onto the microstrip line surface and solder the tab.
✻ Tab Soldering Conditions
Soldering iron tip temperature: 260 to 290℃
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.