

Excellent Integrated System Limited

Stocking Distributor

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Hirose Electric Co Ltd AT-2208(40)

For any questions, you can email us directly: sales@integrated-circuit.com

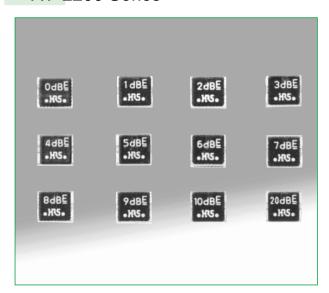
Distributor of Hirose Electric Co Ltd: Excellent Integrated System Limited

Datasheet of AT-2208(40) - LOW POWER ATTENUATOR 208DB

The product information in this catalog is for reference and. Please requests the Engineering Drawing for the intest current and account the 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.



AT-2200 Series



Features

1. Small Size and Lightweight

4mm x 3.6 mm x 1.4 mm max height and weighting only 0.1g.

2. Wide Range of Variations for Each Type of Attenuator

Attenuation levels available in 1 dB steps from 0 to 10 dB, and 20 dB for a total of 12 types of variations

3. Automatic placement

Supplied in embossed packaging to allow placement with automatic equipment. Individual piece packaging is also available.

■Product Specifications

Ratings	Frequency range Characteristic impedance Maximum input power	DC to 2.5GHz (Note) 50Ω 1W	Operating temperature Operating humidity	-10℃ to +65℃ 95% max.
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Note: DC to 600MHz for AT-2220.

Item	Characteristic requirement	Conditions				
1.Vibration	No electrical discontinuity of 1μ s 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/s^2 , sine half-wave waveform, 3 cycles in each of the 3 axis.				
3.Temperature cycle		Temperature : $-55^{\circ}C \rightarrow +15^{\circ}C$ to $+35^{\circ}C \rightarrow +85^{\circ}C \rightarrow +15^{\circ}C$ to $+35^{\circ}C$ Time : 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 (Minutes) 5 cycles				

The test method conforms to MIL-STD-202.

■Materials

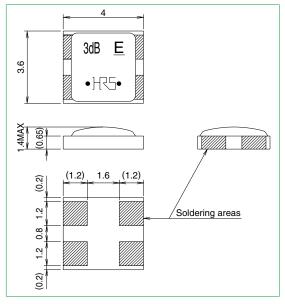
Component	Material	Finish		
Attenuation element	Metal film	Tin-lead plated		

■Ordering information

0	AX:Fixed attenuator					
2	Series name :2200 Series	Series name :2200 Series				
8	Attenuation					
	00-(0): 0 dB (Through)					
	01 : 1dB					
	06 : 6dB					
4	4 (40): RoHS Compliant					

■Dimensions

AT-2203 shown





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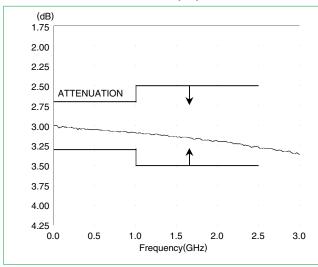
■Specifications

	Attenuation (dB)		V.S.W.R (Max)		01	D	Mounting surface	\A/-:l-4	
Part number	DC~ 1,000MHz	1,000~ 2,000MHz	2,000~ 2,500MHz	DC~2,	500MHz	Characteristic Impedance (Ω)	Power (W)	temperature (°C Max.) at time of maximum input power	Weight (g)
AT-2200-(0)(40)	0+0.3	0+0.5		1.2		50	1	+85	0.1
AT-2201(40)	1±0.3	1±0.5		1.	.2	50	1	+85	0.1
AT-2202(40)	2±0.3	2±0.5		1.2		50	1	+85	0.1
AT-2203(40)	3±0.3	3±0.5		1.2		50	1	+85	0.1
AT-2204(40)	4±0.3	4±0.5		1.	.2	50	1	+85	0.1
AT-2205(40)	5±0.3	5±0.5		1.	.2	50	1	+85	0.1
AT-2206(40)	6±0.3	6±0.5		1.	.2	50	1	+85	0.1
AT-2207(40)	7±0.3	7±0.5		1.2		50	1	+85	0.1
AT-2208(40)	8±0.3	8±0.5		1.2	1.25	50	1	+85	0.1
AT-2209(40)	9±0.3	9±0.5		1.2	1.25	50	1	+85	0.1
AT-2210(40)	10±0.3	10±0.5	10±0.7	1.2	1.25	50	1	+85	0.1
AT-2220(40)	20±1.5(DC to 600MHz)		1.2(DC to	600MHz)	50	1	+85	0.1	

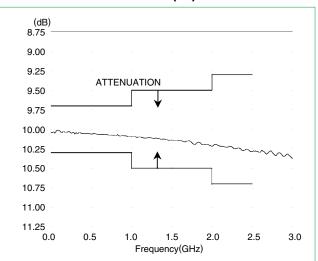
Note: When ordering packaged on tape and reel, add (06) after the end of the part number. One reel = 1,000 pieces

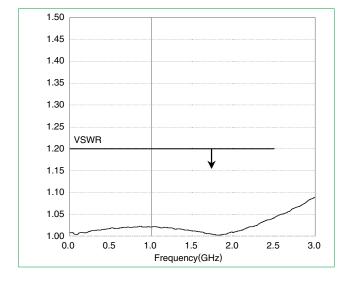
■Typical data

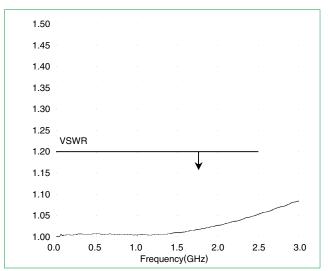
AT-2203(40)



AT-2210(40)







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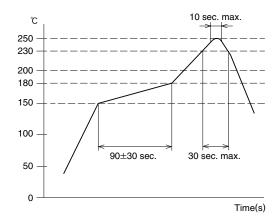


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■Mounting and Soldering Recommendations

The attenuators can be placed using reflow or manual soldering

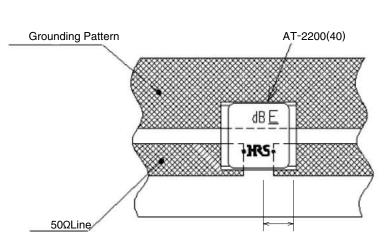
●Reflow Soldering (Temperature Profile Recommendations)

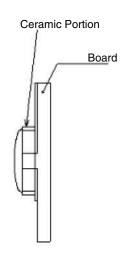


Manual Soldering

Tip temperature: 350°C max. for 3 sec. max.

Note 1: Do not touch the ceramic portion with the soldering iron tip.





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

Note: This attenuator is intended for a one-time use. Do not re-solder or re-use.