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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.

DC to 65 GHz, HV Connector Attenuators

HV-AT Series



Overview

Small, lightweight and low V.S.W.R makes it ideally suited for the widely used high frequency transmission applications.

Frequency bandwidth and high reliability is achieved by the use of resistance substrate on the extremely thin board, to form a suspended line.

HRS unique resistance substrate design and center conductor connection assures consistent and stable performance in changing temperature environments.

Features

- 1. Low V.S.W.R. 1.4 (Typical DC to 65 GHz)
- 2. Space-saving design Overall dimensions: 9 mm dia. x 24.64 mm long.

3. Lightweight Total weight: 5.86 g.

- 4. Mating compatibility
 - Will mate with corresponding V Connector[™] or 1.85mm connector. (Note)

5. RoHS compliant

All components and materials comply with EU Directive 2002/95/EC.

Note: V Connectors is a registered trademark of Anritsu Corporation.

Specifications

Applications

- * Optical transmission devices
- * Network analyzers
- * BERTS (Bit Error Ratio Testing Systems)
- * FWA (Fixed Wireless Access)
- * Measurement applications requiring transmission frequencies of up to 65 GHz.

2006.5 **HRS** 1

Rating	Frequency range Characteristic impedance Power Weight		DC to 65GHz 50Ω 1W CW (At 65℃) 5.86g			Operating temperature range Operating relative humidity		-10℃ to +65℃ 90% max.	
Part No.		Attenuat	ion (dB)		V.S.W.R. (Max)		R. (Max)		
	DC~18GHz	18~26.5GHz	26.5~40GHz	40~65GHz	DC~18GHz	18~26.5GHz	26.5~40GHz	40~65GHz	RoHS
HV-AT(0)-PJ	0 ^{+0.4}	0 ^{+0.5}	0 ^{+0.8}	0 ⁺¹ ₀	1.35	1.4	1.	55	
HV-AT(3)-PJ	3 ^{+0.6} _{-0.4}	$3_{-0.4}^{+0.7}$	$3_{-0.4}^{+0.9}$	3 ^{+1.5} _{-0.4}		1.4		1.55	
HV-AT(6)-PJ	6 ^{+0.7}	6 ^{+0.8}	6 ^{+0.9}	6 ^{+1.5} -0.3		1.4		1.6	YES
HV-AT(10)-PJ	10 ^{+0.3}	10 ^{+0.4} -0.7	$10^{+0.6}_{-0.7}$	10 ^{+1.5}	1.4		1.6		
HV-AT(20)-PJ	20 ^{+0.7}	20 ^{+0.9} -0.3	20 ^{+1.1} -0.3	20 ^{+1.3}	1.4 1.6		1.6		

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Item	Specification	Conditions	
1.Vibration	No electrical discontinuity of 1μ s sec. max.	Frequency 10 to 55 Hz, single amplitude of 1.5mm, 3 axis,	
	No damage, cracks, or parts dislocation.	duration of 2 hours.	
2.Shock	No electrical discontinuity of 1μ s sec. max.	Acceleration of 490m/s ² , sine half-wave waveform,	
	No damage, cracks, or parts dislocation.	3 cycles in each of the 3 axis.	
		Temperature: -55° C $\rightarrow 15^{\circ}$ C to 25° C $\rightarrow 125^{\circ}$ C $\rightarrow 15^{\circ}$ C to 25° C	
3.Temperature cycle	No damage, cracks, or parts dislocation.	Duration (Minutes): $30 \rightarrow 2$ to $3 \rightarrow 30 \rightarrow 2$ to 3	
		100 cycles	
4. High temperature exposure	No damage, cracks, or parts dislocation.	48 hours at 125℃	
5.Low temperature exposure	No damage, cracks, or parts dislocation.	48 hours at -55℃	
6.Corrosion resistance	No corrosion	5% salt water solution, 48 hours at $35^\circ\!\!C$	

Materials and Finishes

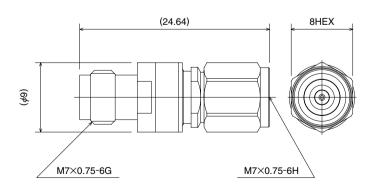
Components	Material	Finish	
Shell	Stainless steel	Passivated	
Coupling	Starness steel		
Insulator	PTFE (Polytetrafluoroethylene)		
Male contact	Brass	Gold plated	
Female contact	Berylium copper	Gold plated	
Attenuation element	Metal film		

Ordering information



0	Series name	: HV Series
2	AT	: Attenuator
8	Attenuation	: 0 0 dB
4	Connector type	: PJ Plug · jack

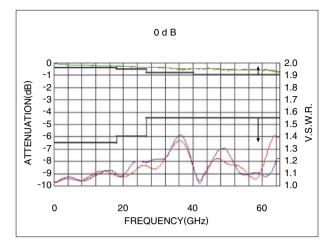
Plug-Jack type Atteuator

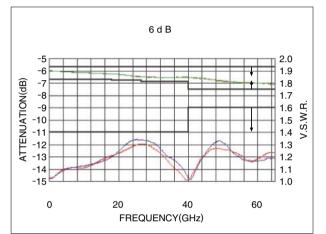


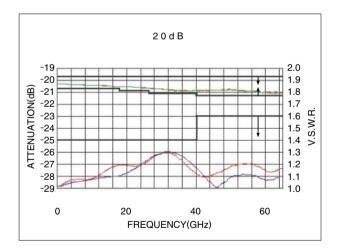
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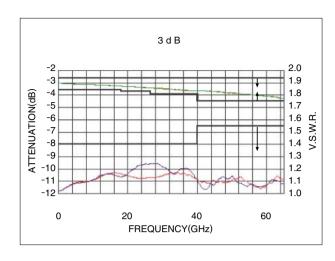
Typical data

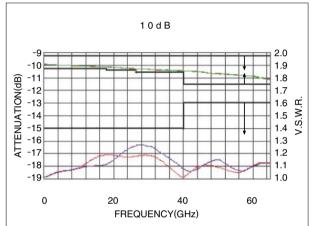
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Usage Precautions

- 1.The center pin contact is 0.511mm diameter. Excersise care when handling the attenuator as NOT to damage or deform this contact. When mating the attenuator with corresponding connector rotate only the hex part. Do not apply axial loads to the center contact or the attenuator body itself.
- 2. Keep both mating ends free of contamination. If needed, they can be cleaned with alcohol.