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# 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.

#### 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.

#### Specifications

•				
Rating	Frequency range Characteristic impedance	DC to 65GHz 50Ω	Operating temperature range	-10℃ to +65℃
nating	Power Weight	1W CW (At 65℃) 5.86g	Operating relative humidity	90% max.

Part No.	Attenuation (dB)			V.S.W.R. (Max)			RoHS		
	DC~18GHz	18~26.5GHz	26.5~40GHz	40~65GHz	DC~18GHz	18~26.5GHz	26.5~40GHz		1 101 10
HV-AT(0)-PJ	0+0.4	0+0.5	0+0.8	0+10	1.35	1.4	1.5	55	
HV-AT(3)-PJ	3 <sup>+0.6</sup> <sub>-0.4</sub>	3 <sup>+0.7</sup> <sub>-0.4</sub>	3 <sup>+0.9</sup> <sub>-0.4</sub>	3 <sup>+1.5</sup> <sub>-0.4</sub>		1.4		1.55	
HV-AT(6)-PJ	6+0.7	6+0.8	6+0.9	6+1.5		1.4		1.6	YES
HV-AT(10)-PJ	10+0.3	10+0.4	10+0.6	10+1.5		1.4		1.6	
HV-AT(20)-PJ	20+0.7	20+0.9	20+1.1	20+1.3		1.4		1.6	

Item	Specification	Conditions		
1.Vibration	No electrical discontinuity of $1\mu s$ sec. max.	Frequency 10 to 55 Hz, single amplitude of 1.5mm, 3 axis,		
1.Vibration	No damage, cracks, or parts dislocation.	duration of 2 hours.		
2.Shock	No electrical discontinuity of $1\mu s$ sec. max.	Acceleration of 490m/s², sine half-wave waveform,		
2.SHOCK	No damage, cracks, or parts dislocation.	3 cycles in each of the 3 axis.		
		Temperature: -55°C → 15°C to 25°C → 125°C → 15°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℃		

#### **■**Materials and Finishes

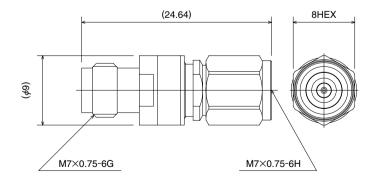
Components	Material	Finish	
Shell	Ctainless steel	Descrivated	
Coupling	Stainless steel	Passivated	
Insulator	PTFE (Polytetrafluoroethylene)		
Male contact	Brass	Gold plated	
Female contact	Berylium copper	Gold plated	
Attenuation element	Metal film	<del></del>	

## **■**Ordering information

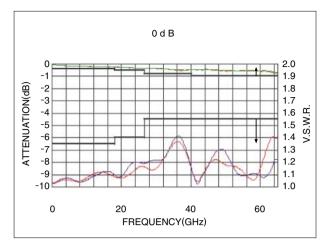
HV-	AT	(***)	-	ΡJ
•	2	8		4

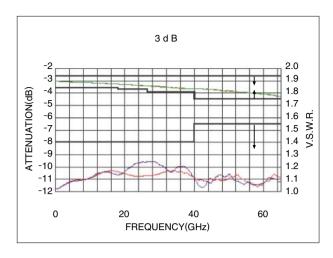
0	Series name	: HV Series
2	AT	: Attenuator
8	Attenuation	: 0 0 dB
4	Connector type	: PJ Plug · jack

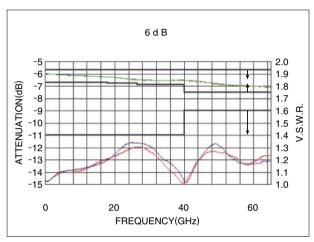
## **■**Plug-Jack type Atteuator

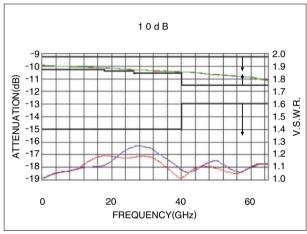


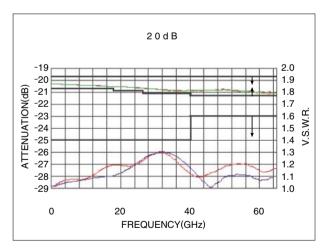
#### ■Typical data











### **●**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.