PRODUCT CATALOG

HIROSE ELECTRIC CO.,LTD.

HRM-AT Series

MIL/IEC Standard SMA Connector Attenuator

Type SMA — SMA

MIL — MIL Standard

AT — Attenuator

【Scheduled to be discontinued】



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Product Page
https://www.hirose.com/en/product/compare?searchType=series&targets=AT-100%2CAT-200%2CAT-300

Apr. 2023

Materials / Finish

Component	Material	Finish
Exterior	Stainless Steel	Passivated
Insulator	PTFE	–
Male Contact	Beryllium Copper	Gold Plating
Female Contact		
Resistive Element	Metal Film	–

Product Number Structure

Refer to the chart below when determining the product specifications from the product number.

AT - ❶ ❷ ❸

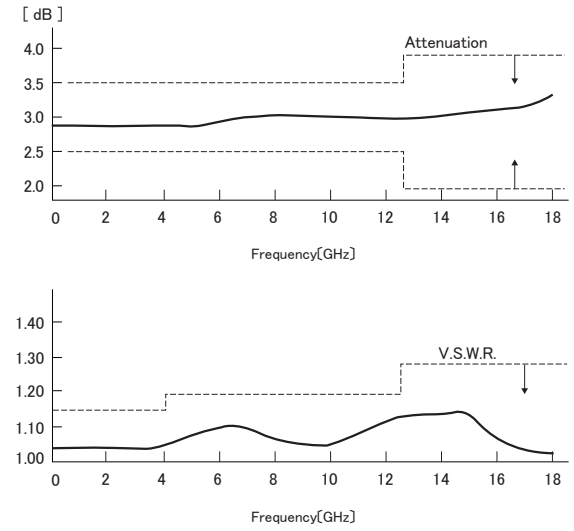
❶ Series Name	AT (Attenuator)	❸ Attenuation (dB)	01 : 1dB 06 : 6dB 00-(0) : 0dB (Through) 00-(0.5) : 0.5dB 00-(3.5) : 3.5dB
❷ Connector Type	1 : Plug and Jack 2 : Plug and Plug 3 : Jack and Jack		

【Scheduled to be discontinued】

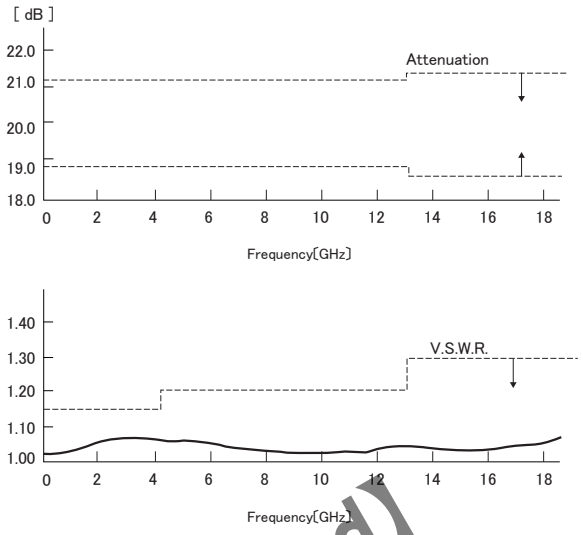
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High-Frequency Performance

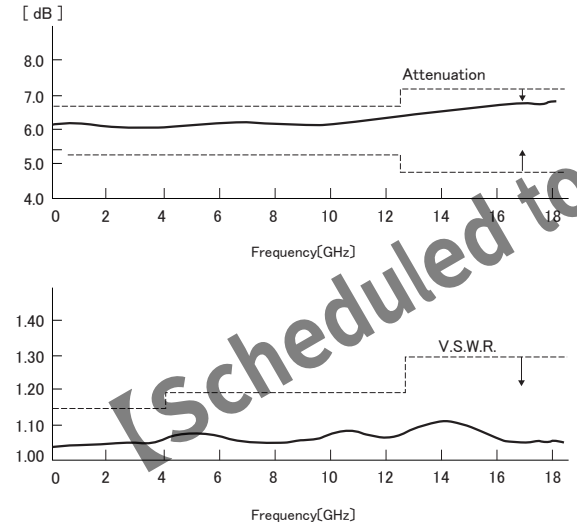
AT-103(40)



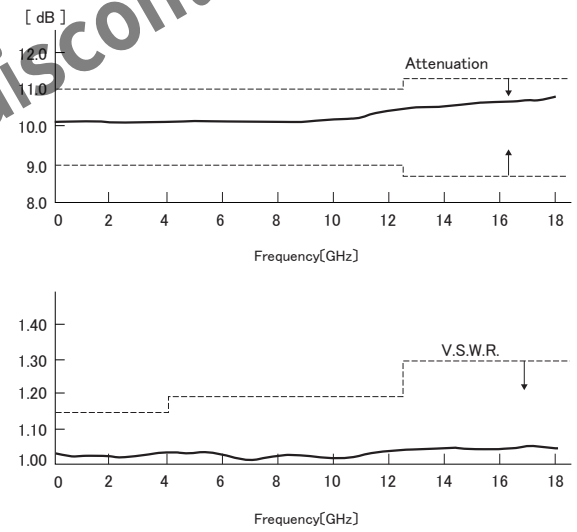
AT-120(40)



AT-206(40)



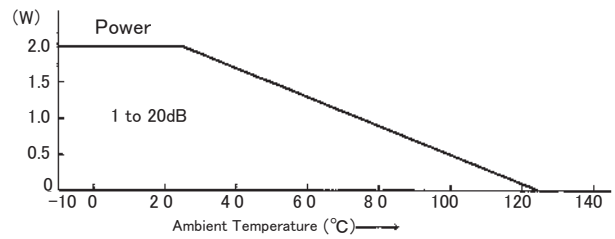
AT-310(40)



[Scheduled to be discontinued]

Allowable Power Characteristics of Attenuator

Allowable Power Characteristics

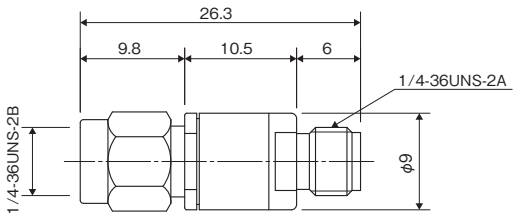


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Attenuator

●Mated Portion : Jack - Plug





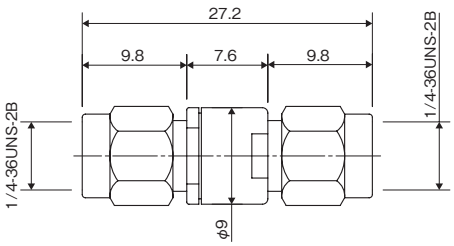
Part No.	HRS No.	Attenuation (dB)		V.S.W.R. (Max)			Power (W)	Weight (g)	Purchase Unit
		0 to 12.4GHz	12.4 to 18GHz	0 to 4GHz	4 to 12.4GHz	12.4 to 18GHz			
AT-100-(0)(40)	CL0354-0045-5-40	?0 $^{+0.5}_{0}$	?0 $^{+1.0}_{0}$	1.15	1.20	1.30	1	8	20pcs per bag
AT-100-(0.5)(40)	CL0354-0077-1-40	0.5 ± 0.5	?0.5 $^{+1.0}_{-0.5}$						
AT-101(40)	CL0354-0015-4-40	1.0 ± 0.5	1.0 ± 1.0						
AT-100-(1.5)(40)	CL0354-0078-4-40	1.5 ± 0.5	1.5 ± 1.0						
AT-102(40)	CL0354-0016-7-40	2.0 ± 0.5	2.0 ± 1.0						
AT-100-(2.5)(40)	CL0354-0079-7-40	2.5 ± 0.5	2.5 ± 1.0						
AT-103(40)	CL0354-0017-0-40	3.0 ± 0.5	3.0 ± 1.0						
AT-100-(3.5)(40)	CL0354-0080-6-40	3.5 ± 0.5	3.5 ± 1.0						
AT-104(40)	CL0354-0018-2-40	4.0 ± 0.5	4.0 ± 1.0						
AT-105(40)	CL0354-0019-5-40	5.0 ± 0.7	5.0 ± 1.2						
AT-106(40)	CL0354-0020-4-40	6.0 ± 0.7	6.0 ± 1.2						
AT-107(40)	CL0354-0021-7-40	7.0 ± 0.7	7.0 ± 1.2						
AT-108(40)	CL0354-0022-0-40	8.0 ± 0.7	8.0 ± 1.2						
AT-109(40)	CL0354-0023-2-40	9.0 ± 1.0	9.0 ± 1.25						
AT-110(40)	CL0354-0024-5-40	10.0 ± 1.0	10.0 ± 1.25						
AT-112(40)	CL0354-0097-9-40	12.0 ± 1.0	12.0 ± 1.25						
AT-113(40)	CL0354-0025-8-40	13.0 ± 1.0	13.0 ± 1.25						
AT-115(40)	CL0354-0026-0-40	15.0 ± 1.2	15.0 ± 1.3						
AT-120(40)	CL0354-0027-3-40	20.0 ± 1.2	20.0 ± 1.3						

[Scheduled to be discontinued]

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●Mated Portion : Plug - Plug

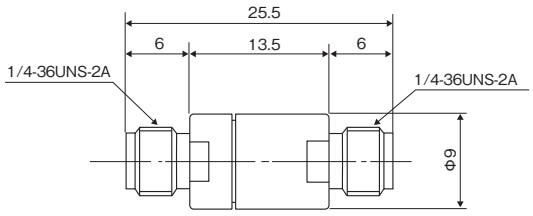




Part No.	HRS No.	Attenuation (dB)		V.S.W.R. (Max)			Power (W)	Weight (g)	Purchase Unit
		0 to 12.4GHz	12.4 to 18GHz	0 to 4GHz	4 to 12.4GHz	12.4 to 18GHz			
AT-203(40)	CL0354-0046-8-40	3.0 ± 0.5	3.0 ± 1.0	1.15	1.20	1.30	1	9	20pcs per bag
AT-206(40)	CL0354-0047-0-40	6.0 ± 0.7	6.0 ± 1.2						
AT-210(40)	CL0354-0048-3-40	10.0 ± 1.0	10.0 ± 1.25						
AT-220(40)	CL0354-0049-6-40	20.0 ± 1.2	20.0 ± 1.3						

●Mated Portion : Jack - Jack





Part No.	HRS No.	Attenuation (dB)		V.S.W.R. (Max)			Power (W)	Weight (g)	Purchase Unit
		0 to 12.4GHz	12.4 to 18GHz	0 to 4GHz	4 to 12.4GHz	12.4 to 18GHz			
AT-303(40)	CL0354-0050-5-40	3.0 ± 0.5	3.0 ± 1.0	1.15	1.20	1.30	1	7	20pcs per bag
AT-310(40)	CL0354-0052-0-40	10.0 ± 1.0	10.0 ± 1.25						
AT-320(40)	CL0354-0053-3-40	20.0 ± 1.2	20.0 ± 1.3						

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【Scheduled to be discontinued】

While Taking into Consideration

Specifications mentioned in this catalog are reference values.
When considering to order or use this product, please review the Drawing and Product Specifications sheets.
Use an appropriate cable when using the connector in combination with cables.
If considering usage of a non-specified cable, please contact your sales representative.
If assembly process is done by jigs & tools which are not identified by Hirose, the warranty of the product may be affected.
If considering usage for below mentioned applications, please contact your sales representative.
In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.

HIROSE ELECTRIC CO.,LTD. 2-6-3,Nakagawa Chuoh,Tsuzuki-Ku,Yokohama-Shi 224-8540,JAPAN
https://www.hirose.com

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PRODUCT CATALOG

HIROSE ELECTRIC CO.,LTD.

HRM-AT-High Series

MIL/IEC Standard SMA Connector High-Power Fixed Attenuators

Type SMA — SMA

MIL — MIL Standard

AT — Attenuator

【Scheduled to be discontinued】



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Product Page
https://www.hirose.com/en/product/series/AT-1000

Apr. 2023

Materials / Finish

Component	Material	Finish
Exterior (Note)	Stainless Steel	Passivated
Insulator	PTFE	–
Male Contact	Brass	Gold Plating
Female Contact	Beryllium Copper	Gold Plating
Outer Conductor	Aluminum	Nickel Plating
Coupling (Note)	Stainless Steel	Passivated
Radiator	Aluminum	Black Almite
Resistive Element	Metal Film	–

(Note) This product contains Beryllia. When disposing of the product, follow the relevant laws and regulations.

Product Number Structure

Refer to the chart below when determining the product specifications from the product number.

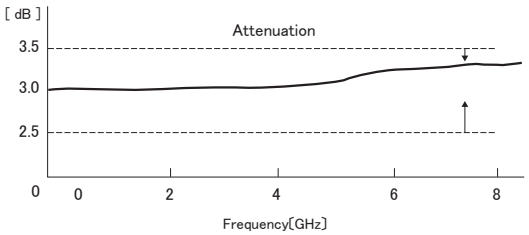
AT - 10 01 (40)
❶ ❷ ❸ ❹

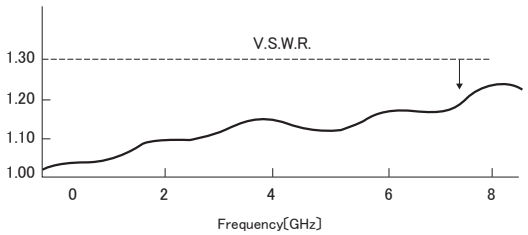
❶ AT	Fixed attenuators	❹ (40)	RoHS Compliant
❷ Series Name (Connector Type)	10 : SMA (Plug - Jack)		
❸ Attenuation	Ex. 01 : 1dB 03 : 3dB 10 : 10dB 20 : 20dB		

【Scheduled to be discontinued】

High-Frequency Performance

● AT-1003(40)

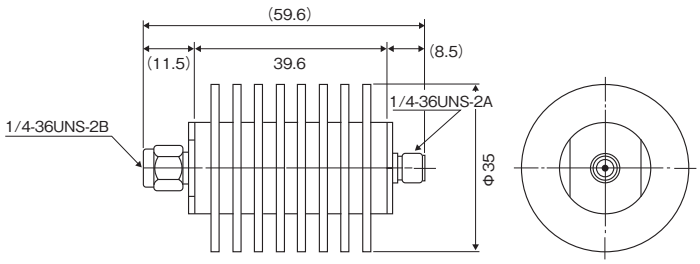




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High-Power Fixed Attenuator (Single Item, Heat Radiating Type)





AT-1003(40)

Part No.	HRS No.	Frequency (GHz)	Attenuation (dB)	V.S.W.R. (Max)	Characteristic Impedance (Ω)	Power (W)	Connector	Weight (g)	Purchase Unit
AT-1001(40)	CL0354-0142-1-40	0 to 8	1 ± 0.5	1.3	50	10	SMA-J・P	80	1pc per bag
AT-1002(40)	CL0354-0143-4-40		2 ± 0.5						
AT-1003(40)	CL0354-0066-5-40		3 ± 0.5						
AT-1006(40)	CL0354-0067-8-40		6 ± 0.7						
AT-1010(40)	CL0354-0068-0-40		10 ± 1.0						
AT-1020(40)	CL0354-0069-3-40		20 ± 1.2						

(Note) This product contains Beryllia. When disposing of the product, follow the relevant laws and regulations.

【Scheduled to be discontinued】

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In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.

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