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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Fixed Attenuators (SMA Type)

AT-100, AT-200, and AT-300 Series



■Features

1. Abundant Variations of Attenuators

Attenuation amounts are available in abundant variations from 0 to 4 dB in 0.5 dB steps, from 4 to 10 dB in 1 dB steps, and in 12, 13, 14, 15, 20, 26 and 30 dB so that levels can be finely adjusted.

2.SMA Type

The coupling portions are available in all types of plug and jack combinations and stainless steel is used for the external cladding to form a small and durable structure.

3. High Degree of Matching and High Reliability

The design of the attenuation element uses a distributed constant circuit and metal film resistor. A high degree of matching is achieved as indicated in the VSWR of the appended tables. Furthermore, these attenuators show stable characteristics for environments of varying temperature, humidity, and gases.

■Product Specifications

Ratings	Rated frequency range (Note) Characteristic impedance Maximum Input Power	DC to 18.0 GHz 50 ohms 1 W	Operating temperature range Operating relative humidity	-10℃ to +65℃ 95% Max.
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Note: The frequency range will differ depending on the model.

Item	Standard	Conditions		
1.Vibration	No electrical discontinuity of 1 μ s or more	Frequency of 10 to 2000 Hz, overall amplitude of 1.52 mm, acceleration of 98 m/s² for 2 hours in each of 3 directions		
2.Shock	No damage, cracks, or parts dislocation	Acceleration of 490 m/s², sine half-wave waveform, 3 cycles in each of the 3 axis		
3.Temperature cycle	No damage, cracks, or parts dislocation	Temperature: -55°C → +15°C to +35°C → +85°C → +15°C to +35°C Time: 30 → 15 max. → 30 → 15 max. (Minutes) 5 cycles		

[●]The test method conforms to MIL-STD-202.

■Materials

Part	Material	Finish		
Connector Body	Stainless steel	Passivated		
Insulator	PTFE			
Male contacts	Beryllium copper	Gold plating		
Female contacts	Beryllium copper	Gold plating		
Attenuation element	Metal film			

■Ordering Information

AT - 1 00-(0) (40)

AT: Indicates a fixed attenuator	Attenuation			
	01	: 1dB		
	06	: 6dB		
Indicates the Series Name (Coupling Portion)	00-(0)	: 0dB		
1: SMA plug - jack		(Through)		
0.0044	00-(0.5)	: 0.5dB		
2: SMA plug - plug	00-(3.5)	: 3.5dB		
3: SMA jack - jack	, ,			
	(40): RoH	S compliant		



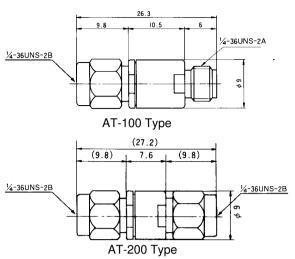
■Specifications

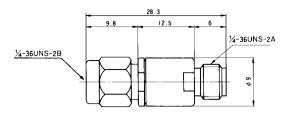
	Attenuation (dB)		V.S.W.R.(Max)			Power	0	Weight	Dallo
Part Number	DC~12.4GHz	12.4~18GHz	DC~4GHz	4~12.4GHz	2.4~18GHz	(W)	Connectors	(g) HO	RoHS
AT-100-(0)(40)	0 +0.5	0 +1.0	1.15	1.20	1.30	1	HRM-J·P	8	
AT-100-(0.5)(40)	0.5±0.5	0.5 +1.0 -0.5	1.15	1.20	1.30	1	HRM-J·P	8	
AT-101(40)	1±0.5	1±1.0	1.15	1.20	1.30	1	HRM-J·P	8	
AT-100-(1.5)(40)	1.5±0.5	1.5±1.0	1.15	1.20	1.30	1	HRM-J·P	8	
AT-102(40)	2±0.5	2±1.0	1.15	1.20	1.30	1	HRM-J·P	8	
AT-100-(2.5)(40)	2.5±0.5	2.5±1.0	1.15	1.20	1.30	1	HRM-J · P	8	
AT-103(40)	3±0.5	3±1.0	1.15	1.20	1.30	1	HRM-J·P	8	
AT-100-(3.5)(40)	3.5±0.5	3.5±1.0	1.15	1.20	1.30	1	HRM-J·P	8	
AT-104(40)	4±0.5	4±1.0	1.15	1.20	1.30	1	HRM-J·P	8	
AT-105(40)	5±0.7	5±1.2	1.15	1.20	1.30	1	HRM-J·P	8	
AT-106(40)	6±0.7	6±1.2	1.15	1.20	1.30	1	HRM-J·P	8	
AT-107(40)	7±0.7	7±1.2	1.15	1.20	1.30	1	HRM-J·P	8	
AT-108(40)	8±0.7	8±1.2	1.15	1.20	1.30	1	HRM-J·P	8	
AT-109(40)	9±1.0	9±1.25	1.15	1.20	1.30	1	HRM-J·P	8	YES
AT-110(40)	10±1.0	10±1.25	1.15	1.20	1.30	1	HRM-J·P	8	TES
AT-112(40)	12±1.0	12±1.25	1.15	1.20	1.30	1	HRM-J·P	8	
AT-113(40)	13±1.0	13±1.25	1.15	1.20	1.30	1	HRM-J·P	8	
AT-114(40)	14±1.2	14±1.3	1.15	1.20	1.30	1	HRM-J·P	8	
AT-115(40)	15±1.2	15±1.3	1.15	1.20	1.30	1	HRM-J·P	8	
AT-120(40)	20±1.2	20±1.3	1.15	1.20	1.30	1	HRM-J·P	8	
AT-203(40)	3±0.5	3±1.0	1.15	1.20	1.30	1	HRM-P · P	9	
AT-206(40)	6±0.7	6±1.2	1.15	1.20	1.30	1	HRM-P · P	9	
AT-210(40)	10±1.0	10±1.25	1.15	1.20	1.30	1	HRM-P · P	9	
AT-220(40)	20±1.2	20±1.3	1.15	1.20	1.30	1	HRM-P · P	9	
AT-303(40)	3±0.5	3±1.0	1.15	1.20	1.30	1	HRM-J·J	7	
AT-306(40)	6±0.7	6±1.2	1.15	1.20	1.30	1	HRM-J·J	7	
AT-310(40)	10±1.0	10±1.25	1.15	1.20	1.30	1	HRM-J·J	7	
AT-320(40)	20±1.2	20±1.3	1.15	1.20	1.30	1	HRM-J·J	7	

Part Number	Attenuation (dB)	V.S.W.R.(Max)		Power	Connectors	Weight	RoHS
Part Number	DC~8GHz	DC~4GHz	4~8GHz	(W)	Connectors	(g)	110110
AT-126(40)	26±1.0	1.15	1.20	1	HRM-J·P	8	YES
AT-130(40)	30±1.2	1.15	1.20	1	HRM-J·P	8	TES

70 **HS**

■External Dimensions





AT-126,130 Type

25.5
6
13.5
6
4-36UNS-2A

AT-300 Type

■Typical Data

