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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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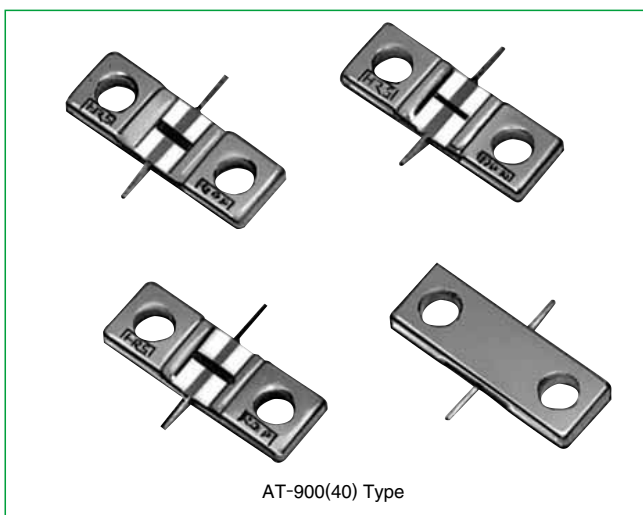
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# Stripline Mounting Fixed Attenuators (DC to 8 GHz)

## AT-900 Series



### ■Features

#### 1. Frequency Range from DC to 8 GHz

Although these attenuators are of the surface mount type, they offer superior high frequency characteristics from DC to 8 GHz.

#### 2. Abundant Variations of Attenuators

Attenuation amounts are available in 11 types from 0 to 10 dB in 1 dB steps.

### ■Product Specifications

Ratings	Frequency Range (Note) Characteristic impedance Maximum Input Power (Note)	DC to 8.0 GHz 50 ohms 1 W	Operating temperature range Operating relative humidity	-10°C to +65°C 95% Max.
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Note: The frequency range and the maximum input power will differ depending on the products.

Item	Standard	Conditions
1.Vibration	No electrical discontinuity of 1 $\mu$ s or more	Frequency of 10 to 2000 Hz, overall amplitude of 1.52 mm, acceleration of 98 m/s <sup>2</sup> for 2 hours in each of 3 directions
2.Shock	No damage, cracks, or parts dislocation	Acceleration of 490 m/s <sup>2</sup> , 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	Brass	Nickel plating
Attenuation element	Metal film	—
Tabs	Copper	Solder plating

### ■Ordering Information

**AT — 9 01 (40)**  
① ② ③ ④

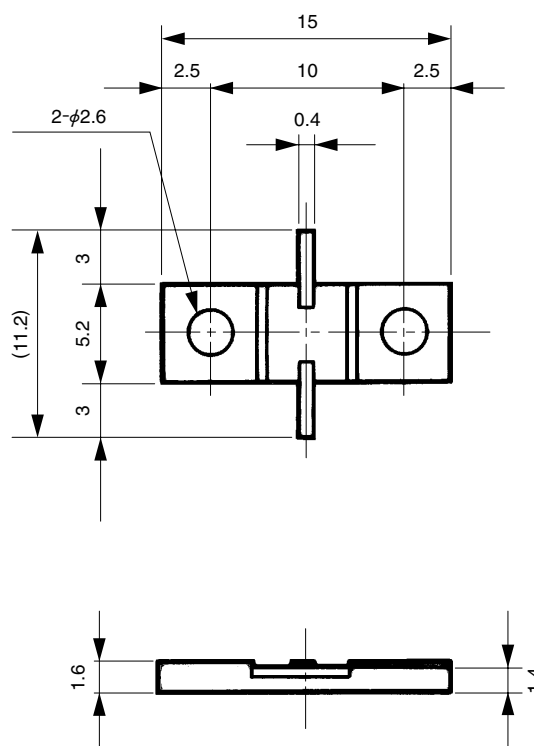
① AT: Indicates a fixed attenuator	③ Attenuation 01 : 1dB 06 : 6dB 00-(0) : 0dB (Through) 00-(1.5) : 1.5dB
② Indicates the Series Name: AT-900 Series	④ (40): RoHS Compliant

## AT-900 Series Stripline Mounting Fixed Attenuators (DC to 8 GHz)

### Specifications

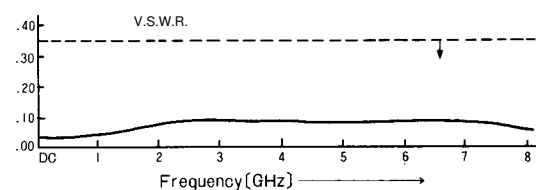
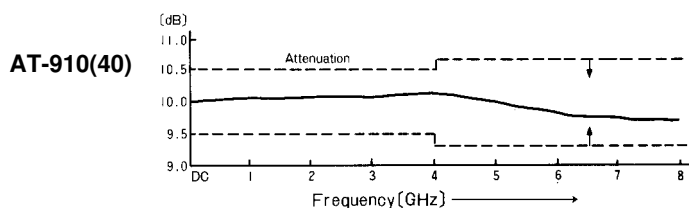
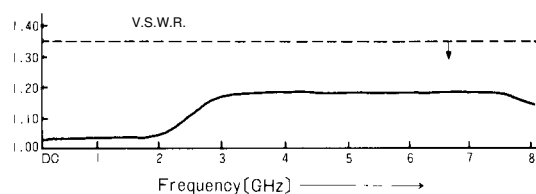
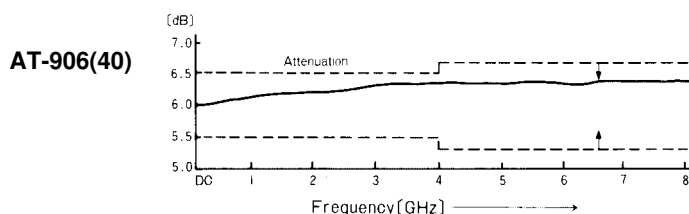
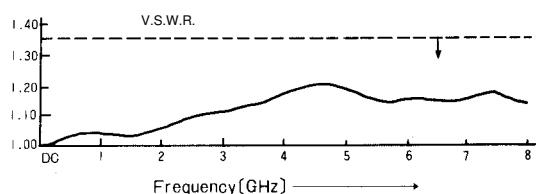
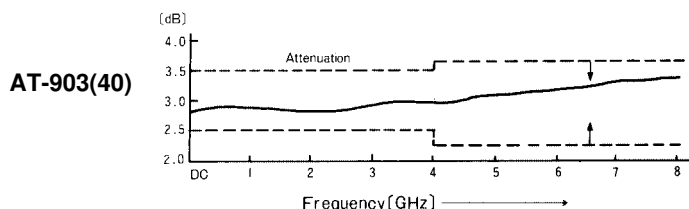
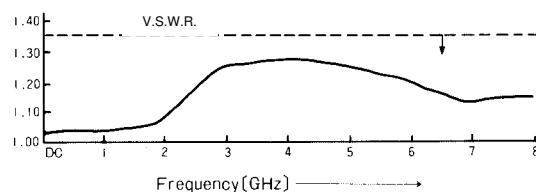
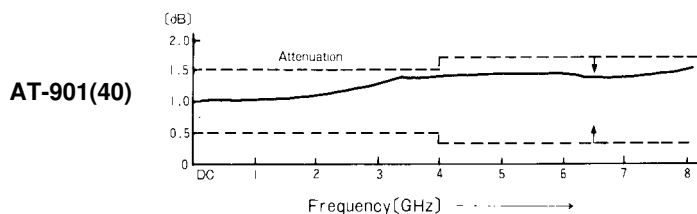
Model No.	Attenuation (dB)		V.S.W.R. (Max) DC~8GHz	Power (W)	Surface Temperature at Maximum Load (°C Max)	Weight (g)	RoHS
	DC~4GHz	4~8GHz					
AT-900-(0)(40)	0 $^{+0.5}_{-0}$	0 $^{+0.7}_{-0}$	1.35	1	+85	1	YES
AT-901(40)	1±0.5	1±0.7	1.35	1	+85	1	
AT-902(40)	2±0.5	2±0.7	1.35	1	+85	1	
AT-903(40)	3±0.5	3±0.7	1.35	1	+85	1	
AT-904(40)	4±0.5	4±0.7	1.35	1	+85	1	
AT-905(40)	5±0.5	5±0.7	1.35	1	+85	1	
AT-906(40)	6±0.5	6±0.7	1.35	1	+85	1	
AT-907(40)	7±0.5	7±0.7	1.35	1	+85	1	
AT-908(40)	8±0.5	8±0.7	1.35	1	+85	1	
AT-909(40)	9±0.5	9±0.7	1.35	1	+85	1	
AT-910(40)	10±0.5	10±0.7	1.35	1	+85	1	

### External Dimensions



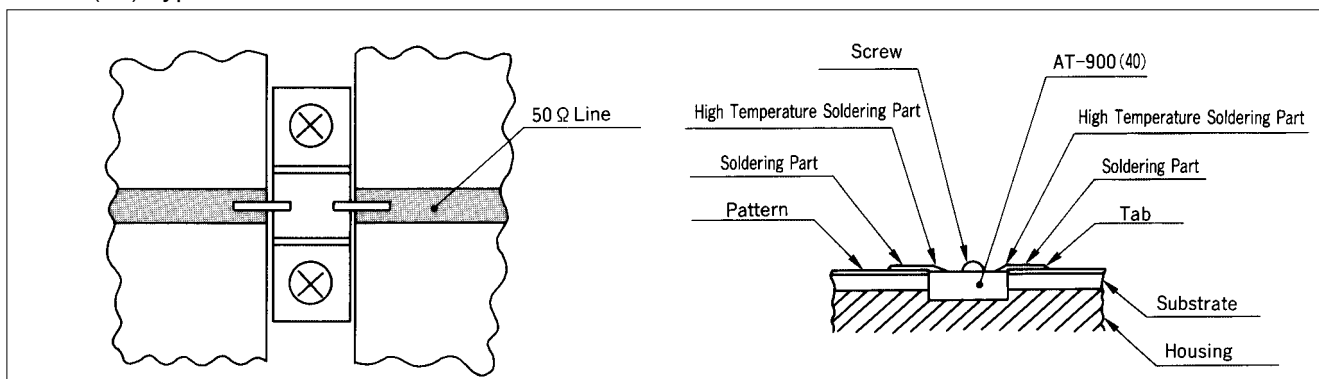
AT-900 Type

## Typical Data



## Mounting Method

### AT-900(40) Type



- Make the AT-900(40) tab height from the housing and the thickness of the microstrip board the same amount.
- The tabs are attached with high temperature solder (having a melting point of 280°C). The soldering temperature to the microstrip board must be less than this.