

# Fixed Attenuators - 2W power (SMA type)

## AT-1900 Series



### ■ Features

#### 1. Small Size

Use of alumina for the attenuation element assures light weight and is cost effective.

#### 2. SMA coupling

Several configurations of SMA plug/jack couplings are available in stainless steel, assuring durability.

#### 3. High Reliability

Proven and stable performance characteristic under varying temperature, humidity and adverse environmental conditions.

### ■ Product Specifications

Ratings	Frequency range Characteristic impedance Maximum Input Power	DC to 8.0GHz 50 ohms 2W	Operating temperature Operating Humidity	-30°C ~ +65°C 95% max.
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Item	Characteristic Requirement	Conditions
1. Vibration	No electrical discontinuity of 1 $\mu$ s or more. No damage, cracks, or parts dislocation.	Frequency of 10 to 2000 Hz, overall amplitude of 1.52 mm, acceleration of 98 m/s <sup>2</sup> for 4 hours in each of 3 directions
2. Shock		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 : -35°C → +5°C to +35°C → +85°C → +5°C to +35°C Time : 30 → 15 max. → 30 → 15 max. (Minutes) 5 cycles

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

### ■ Material

Component	Material	Finish
Body	Stainless steel	Passivated
Insulator	PTFE	—
Male contact	Brass	Gold plated
Female contact	Beryllium copper	Gold plated
Outer conductor (interior)	Aluminum	Nickel plated
Couplings	Stainless steel	Passivated
Radiator	Aluminum	Black alumite
Attenuation element	Alumina	—

### ■ Ordering Information

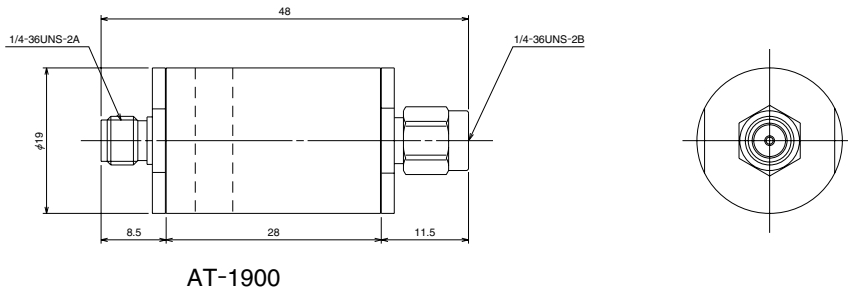
**AT — 19 03**  
①      ②      ③

① Fixed attenuator	③ Attenuation 03 : 3dB 06 : 6dB 10 : 10dB
② Series Name and coupling type: SMA plug/jack	

## ■ Specifications

Part Number	Frequency Range (GHz)	Attenuation (dB)	V.S.W.R. (Max)	Impedance (ohms)	Power (W)	Connectors	Weight (g)
AT-1903	DC~4	3±0.3	1.25	50	2	SMA type plug / jack	40
	4~8	3±0.5					
AT-1906	DC~4	6±0.3	1.25	50	2	SMA type plug / jack	40
	4~8	6±0.5					
AT-1910	DC~4	10±0.5	1.3	50	2	SMA type plug / jack	40
	4~8	10±1					

## ■ External Dimensions



## ■ Typical Data

