

DC to 4.0GHz	Fixed Coaxial Attenuators	CL 354
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◆ GENERAL FEATURES

- The AT-400 series attenuators use N-type connectors (S-type are also compatible), while the AT-500 series uses BNC-type connectors, and the AT-600 series uses TNC-type connectors; all have P-J connections.
- Thanks to the value engineering included in the design structure, the devices are compact and extremely inexpensive.
- The basic material of the attenuator components is high-purity aluminum, and the resistance coating is gold film, which has excellent temperature characteristics and imparts stability with respect to temperature, humidity and gases.
- The component uses a distributed-constant circuit, and as a result variation of attenuation due to frequency is small.

◆ OPERATIONAL ENVIRONMENT

Operating temperature; $-10^{\circ}\text{C} \sim +65^{\circ}\text{C}$

Humidity; 0~95%

◆ TEST ENVIRONMENT

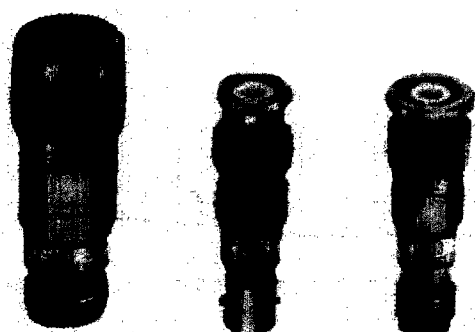
Vibration resistance; 10~55Hz

Total amplitude; 1.5mm 55~2000Hz 98m/s²

Impulse Resistance; 490m/s²

Temperature resistance; $-55^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Testing Method per MIL-STD-202



AT-403

AT-503

AT-603

◆ MATERIAL • FINISH

Part name	Material	Finish
Body	Brass	Nickel-plated
Insulator	Teflon	
Contact (Male)	Brass	Gold-plated
Contact (Female)	Beryllium copper	Gold-plated
Attenuator Element	Metal film	

◆ MODEL No.

AT - 4 03

Attenuation (dB)

Ex. 03 3 dB

06 6 dB

10 10 dB

20 20 dB

Product classification

Ex. 4 N-type connector

5 BNC-type connector

6 TNC-type connector

Type of connection

(P: plug, J: jack)

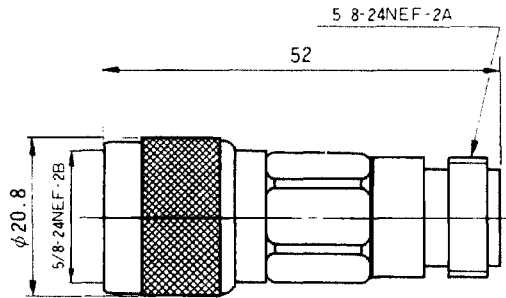
Series Name (Attenuator)

MICROWAVE COMPONENTS

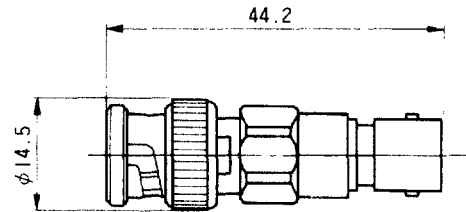
◆ SPECIFICATIONS

Model No.	Frequency Range (MHz)	VSWR (MAX)	Attenuation (dB)	Power (W)	Connectors	Weight (g)
AT-401	DC~2000	1.15	1 ± 0.5	2	N-P•J	77
	2000~4000	1.20	$1 \begin{smallmatrix} +0.5 \\ -0.3 \end{smallmatrix}$			
AT-402	DC~2000	1.15	2 ± 0.5	2	N-P•J	77
	2000~4000	1.20	$2 \begin{smallmatrix} +0.5 \\ -0.3 \end{smallmatrix}$			
AT-403	DC~2000	1.15	3 ± 0.5	2	N-P•J	77
	2000~4000	1.20	$3 \begin{smallmatrix} +0.5 \\ -0.3 \end{smallmatrix}$			
AT-406	DC~2000	1.15	6 ± 0.5	2	N-P•J	77
	2000~4000	1.20	$6 \begin{smallmatrix} +0.5 \\ -0.3 \end{smallmatrix}$			
AT-410	DC~2000	1.15	10 ± 0.5	2	N-P•J	77
	2000~4000	1.20	$10 \begin{smallmatrix} +0.8 \\ -0.5 \end{smallmatrix}$			
AT-420	DC~2000	1.15	20 ± 0.5	2	N-P•J	77
	2000~4000	1.20	$20 \begin{smallmatrix} +0.8 \\ -0.5 \end{smallmatrix}$			
AT-503	DC~1000	1.15	3 ± 0.3	2	BNC-P•J	25
	1000~2000	1.25				
AT-506	DC~1000	1.15	6 ± 0.3	2	BNC-P•J	25
	1000~2000	1.25				
AT-510	DC~1000	1.15	10 ± 0.5	2	BNC-P•J	25
	1000~2000	1.25				
AT-514	DC~1000	1.15	14 ± 1.2	2	BNC-P•J	25
	1000~2000	1.25				
AT-520	DC~1000	1.15	20 ± 0.5	2	BNC-P•J	25
	1000~2000	1.25				
AT-603	DC~1000	1.15	3 ± 0.3	2	TNC-P•J	29
	1000~2000	1.25				
AT-606	DC~1000	1.15	6 ± 0.3	2	TNC-P•J	29
	1000~2000	1.25				
AT-610	DC~1000	1.15	10 ± 0.5	2	TNC-P•J	29
	1000~2000	1.25				
AT-620	DC~1000	1.15	20 ± 0.5	2	TNC-P•J	29
	1000~2000	1.25				

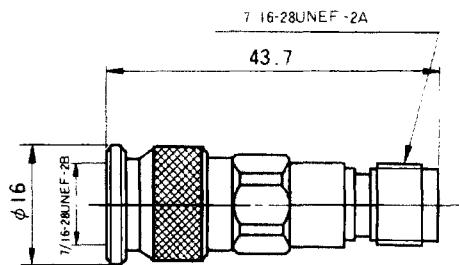
◆ DIMENSIONS



AT-400

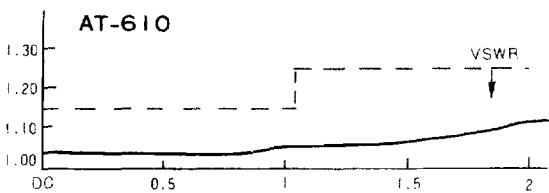
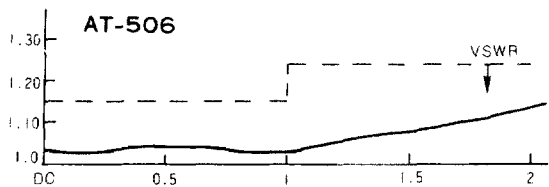
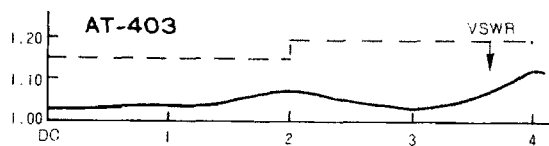


AT-500

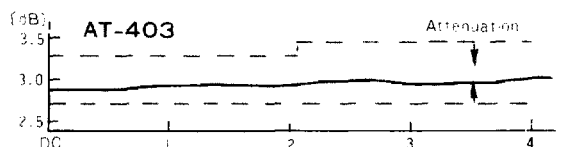
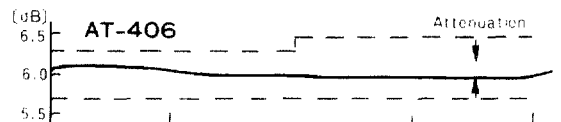
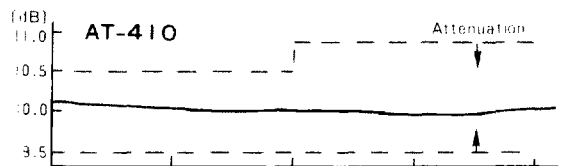
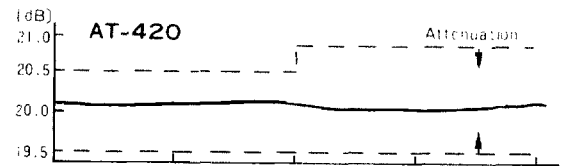


AT-600

◆ (Typical) DATA



Frequency (GHz) →



Frequency (GHz) →