

# Coaxial SMA Fixed Attenuator

50Ω 1W 9dB DC to 6000 MHz

VAT-9+  
VAT-9



## Maximum Ratings

Operating Temperature	-45°C to 100°C
Storage Temperature	-55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

## Features

- wideband coverage, DC to 6000 MHz
- 1 watt rating
- rugged unibody construction
- off-the-shelf availability
- very low cost

## Applications

- impedance matching
- signal level adjustment

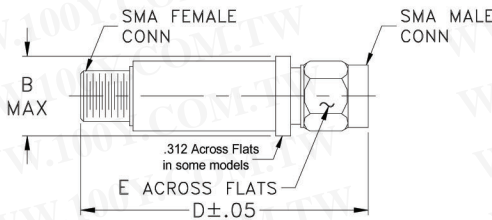
Connectors	Model
SMA	VAT-9(+)

CASE STYLE: FF704

**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

## Outline Drawing



## Outline Dimensions (inch/mm)

B	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## Electrical Specifications

FREQ. RANGE (MHz)	ATTENUATION * (dB)					VSWR (:1)			MAX. INPUT POWER (W)		
	Flatness **										
	DC-3 GHz	3-5 GHz	5-6 GHz	DC-6 GHz	DC-3 GHz	3-5 GHz	5-6 GHz				
$f_c - f_u$	Nom.	Typ.	Typ.	Typ.	Typ.	Typ.	Max.	Typ.	Max.	Typ.	
DC-6000	9±0.3	0.10	0.10	0.10	0.10	1.05	1.20	1.15	1.50	1.45	1.0

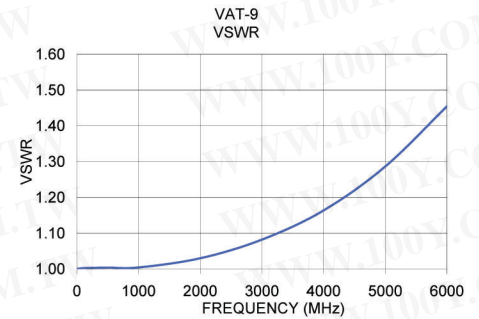
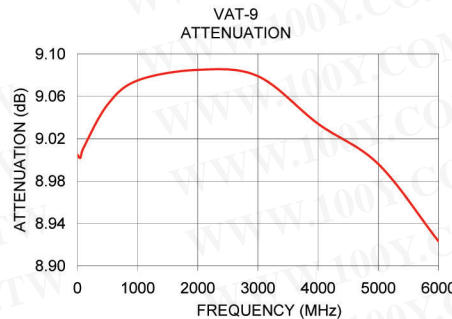
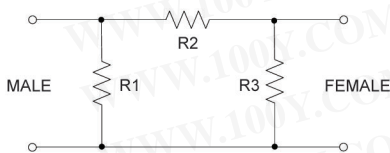
\* Attenuation varies by 0.3 dB max. over temperature.

\*\* Flatness= variation over band divided by 2.

## Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
0.03	9.01	1.00
50.00	9.00	1.00
100.00	9.01	1.00
500.00	9.05	1.00
1000.00	9.08	1.00
2000.00	9.09	1.03
3000.00	9.08	1.08
4000.00	9.03	1.16
5000.00	9.00	1.29
6000.00	8.92	1.45

## Electrical Schematic



## Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)