

Fixed Attenuator

DC to 4200 MHz



VAT-12

Maximum Ratings

Operating Temperature	-40°C to 100°C
Storage Temperature	-40°C to 100°C
Connectors:	SMA type male/female

Features

- wideband coverage, DC to 4200 MHz
- excellent matching VSWR, 1.22:1 typ.
- attenuation flatness, 0.3 dB typ. over DC-2000 MHz
- rugged construction
- 0.5 watt rating
- low-cost

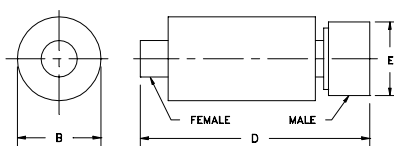


CASE STYLE: FF704
PRICE: \$ 11.95 ea.
QTY.: (10-49)

Applications

- impedance match
- instrumentation

Outline Drawing



Electrical Specifications

FREQUENCY (MHz)	ATTENUATION** (dB) FLATNESS, Typ.				VSWR Typ.			POWER* (W)
	Nom.	L ₁	M ₁	U ₁	L ₁	M ₁	U ₁	
DC-4200	12±0.4	0.15	0.15	0.15	1.08	1.19	1.31	0.5

L₁=DC-(1/3)f_u M₁=DC-(2/3)f_u U₁=DC-f_u

* 0.5 watt at 70°C ambient derate linearly .025W/°C above 70°C.

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

Typical Performance Data

FREQUENCY (MHz)	ATTENUATION		VSWR	
	$\bar{X}$ (dB)	σ (dB)	$\bar{X}$	σ
0.05	12.04	0.00	1.00	0.00
0.10	12.03	0.00	1.00	0.00
10.00	12.03	0.00	1.00	0.00
100.00	12.05	0.00	1.01	0.00
1100.00	12.16	0.01	1.02	0.01
2000.00	12.17	0.02	1.08	0.01
3000.00	12.08	0.03	1.16	0.01
3500.00	12.07	0.04	1.20	0.01
4000.00	12.08	0.04	1.24	0.01
4200.00	12.01	0.07	1.25	0.01

Outline Dimensions (inch/mm)

A	B	C	D	E	wt.
—	.370	—	1.42	.312	grams
—	9.40	—	36.07	7.92	10.0

