ORDERING INFORMATION

PART IDENTIFIER:

MTVA 0X 00 N 0X S

- MTVA Series
- 0X = dB Value
- S = Pretinning.
- 0X = Temperature Coefficient of Attenuation 1 X 10^{-3} dB/dB/°C.
- N = Negative Attenuation Shift.
- 00 = EMC Code.

SPECIFICATIONS

1. ELECTRICAL:

Nominal Impedance: 50 Ω.

Frequency Range: -0.001, -0.003, -0.004, -0.005 DC – 18 GHz.
-0.006, -0.007, -0.009 DC – 12.4 GHz.

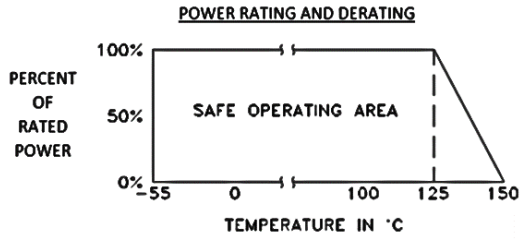
Attenuation Values Available: See Table Below.

	DC – 18 GHz Temperature Coefficient of Attenuation (dB/dB/°C) "Shift"				DC – 12.4 GHz Temperature Coefficient of Attenuation (dB/dB/°C) "Shift"		
dB Value	-0.001	-0.003	-0.004	-0.005	-0.006	-0.007	-0.009
0dB	X	X	X	X		X	X
1dB	X	X	X	X	X	X	X
2dB	X	X	X	X	X	X	X
3dB	X	X	X	X	X	X	X
4dB	X	X	X	X	X	X	X
5dB	X	X	X	X	X	X	X
6dB	X	X	X	X	X	X	X
7dB	X	X		X	X	X	X
8dB	X	X		X		X	X
9dB	X	X					X
10dB	X						

Attenuation Accuracy @25°C: ± 0.5 dB @ 1GHz.

VSWR: 1.30:1 Max @ 1 GHz.

Input Power: 200 Milliwatts CW Full Rated Power to 125°C, Derated Linearly to 0 watts @ 150°C.



Temperature Coefficient of Attenuation: See Table Above.

Temperature Coefficient Tolerance: ±0.001 dB/dB/°C

2. ENVIRONMENTAL:

Operating Temperature: -55˚C to +150˚C.

3. MARKING:

Unit Marking: dB Value (X), Direction of Shift (N) and TCA Shift (X).

AMERICAS
Sales: Focom.uscsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

EUROPE
Sales: Focom.emeacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

ASIA
Sales: Focom.asiacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

4. QUALITY ASSURANCE:

Sample Inspect Per ANSI/ASQC Z1.4 General Inspection, Level II, AQL=1.0.
Visual and Mechanical Examination for Conformance to Outline Drawing Requirements.
Sample Inspection (Destructive Testing).

Select three (3) units from lot and measure DCA every 20°C over the temperature range of -55°C to +125°C; Calculate using linear regression, the slope of the curve.
Calculate TCA using the following formula:

$$TCA = \frac{Slope}{Attenuation\ @\ 25°C}$$

Inspection in accordance with 824W107.
Test Data Requirements:

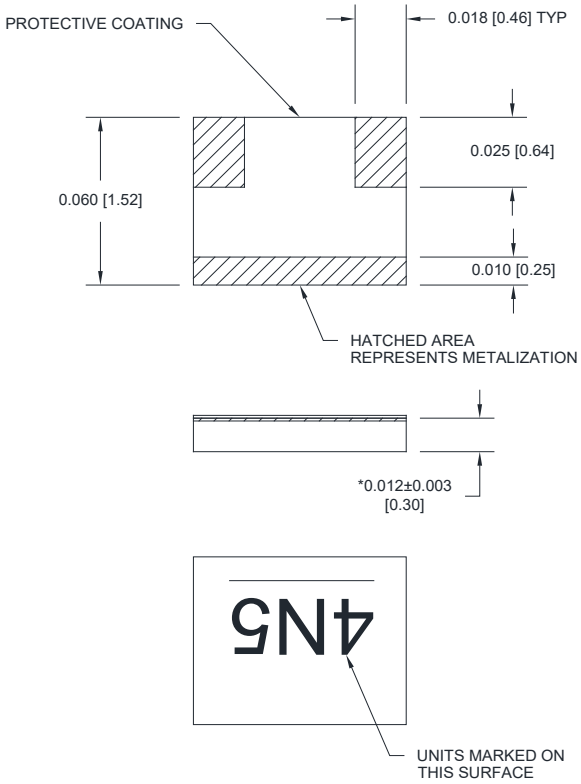
No Data Required for Customer.
Data Retention – 24 months.

5. PACKAGING:

Standard: Tape and Reel.

6. MECHANICAL:

Substrate Material: Alumina, 96% MIL-I-10.
Terminal Material: Thick film, Nickel Barrier, Silver Coated.
Workmanship: Per MIL-PRF-55342.
Resistive Film: Thick Film.
Metric Dimensions: Provided for reference only.



Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005.
Dimensions apply before solder allow 0.15 max for pre-tinned surfaces.

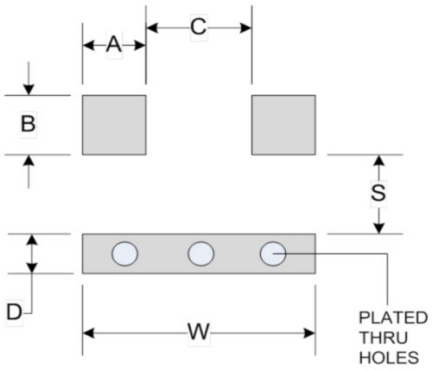
AMERICAS
Sales: Focom.uscsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

EUROPE
Sales: Focom.emeacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

ASIA
Sales: Focom.asiacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

7. FOOTPRINT:

	Inches						mm					
Part Number	A	B	C	D	S	W	A	B	C	D	S	W
MTVA0X00N0XS	0.022	0.028	0.041	0.013	0.026	0.075	0.56	0.71	1.04	0.33	0.66	1.91



AMERICAS
Sales: Focom.uscsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

EUROPE
Sales: Focom.emeacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

ASIA
Sales: Focom.asiacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com