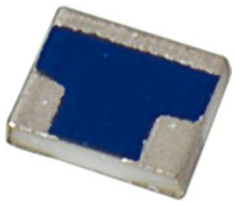
ORDERING INFORMATION



PART IDENTIFIER:

MTVA0X00N0XS

- X-dB Value
- N-Attenuation Shift Negative
- X-Temperature Coefficient of Attenuation 1 X 10^{-3} dB/dB/°C

SPECIFICATIONS

1. ELECTRICAL:

Nominal Impedance:	50 Ω.
Frequency Range:	-.003, -.004, -.005 DC – 18 GHz.
	-.006, -.007, -.009 DC – 12.4 GHz.
Attenuation Values Available:	1 - 8 dB in 1 dB increments.
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:	-0.003, -0.004, -0.005, -0.006, -0.007 and -0.009 dB/dB/°C.
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).

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.

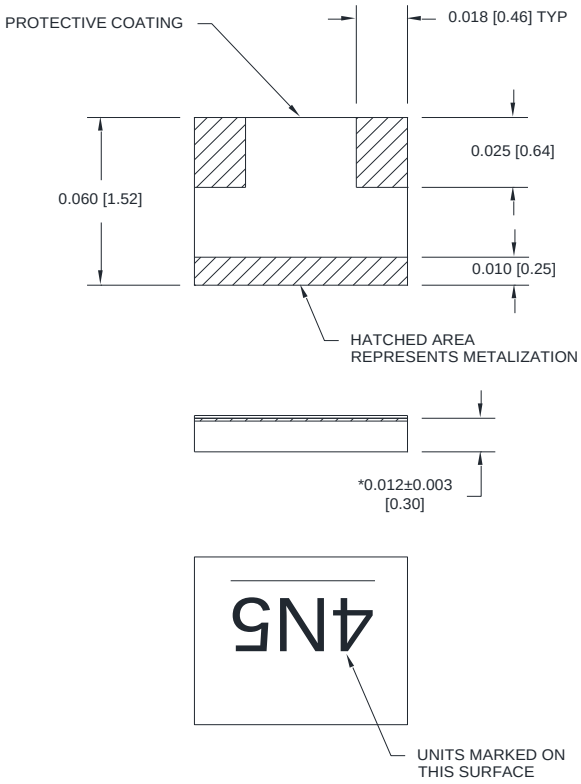
AMERICAS
Sales: Focom.uscsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

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

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

6. MECHANICAL:

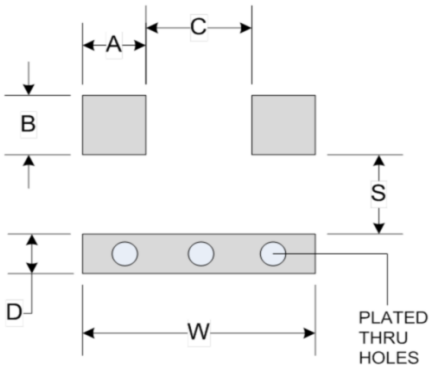
Substrate Material:	Alumina, 96% MIL-I-10.
Terminal Material:	Thick film, Nickel Barrier, Silver Coated.
Workmanship:	Per MIL-PRF-55342.
Resistive Film:	Thick Film.
Metric Dimensions:	Provided for reference only.



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

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



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