

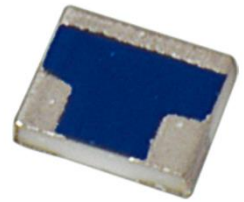
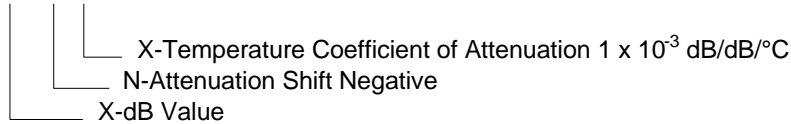
## ATTENUATOR TEMPERATURE VARIABLE

DATASHEET PART SERIES: MTVA0X00N0XW1

Sheet 1 of 2  
Doc# MTVA0X00N0XW1-1004865ECO-084244  
Revision M

## ORDERING INFORMATION

Part Identifier: MTVA0X00N0XW1



## SPECIFICATIONS

## 1.0 ELECTRICAL

|   |  |
|---|--|
| Nominal Impedance:                      | 50 $\Omega$  |
| Frequency Range:                        | DC-12.4 GHz  |
| Attenuation Values Available:           | 1-8 dB in 1 dB increments  |
| Attenuation Accuracy:                   | @ 25°C: $\pm 0.5$ dB @ 1 GHz   |
| VSWR:                                   | 1.30:1 Max @ 1 GHz   |
| Input Power                             | 200 Milliwatts cw.<br>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:      | $\pm 0.001$ dB/dB/°C   |

## 2.0 ENVIRONMENTAL

|                        |                 |
|------------------------|-----------------|
| Operating Temperature: | -55°C to +150°C |
|------------------------|-----------------|

## 3.0 MARKING

|               |      |
|---------------|------|
| Unit Marking: | None |
|---------------|------|

## 4.0 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:

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

Inspection in accordance with 824W107

Test Data Requirements:

No Data Required for Customer

Data Retention – 24 Months

## 5.0 PACKAGING

|           |               |
|-----------|---------------|
| Standard: | Tape and Reel |
|-----------|---------------|

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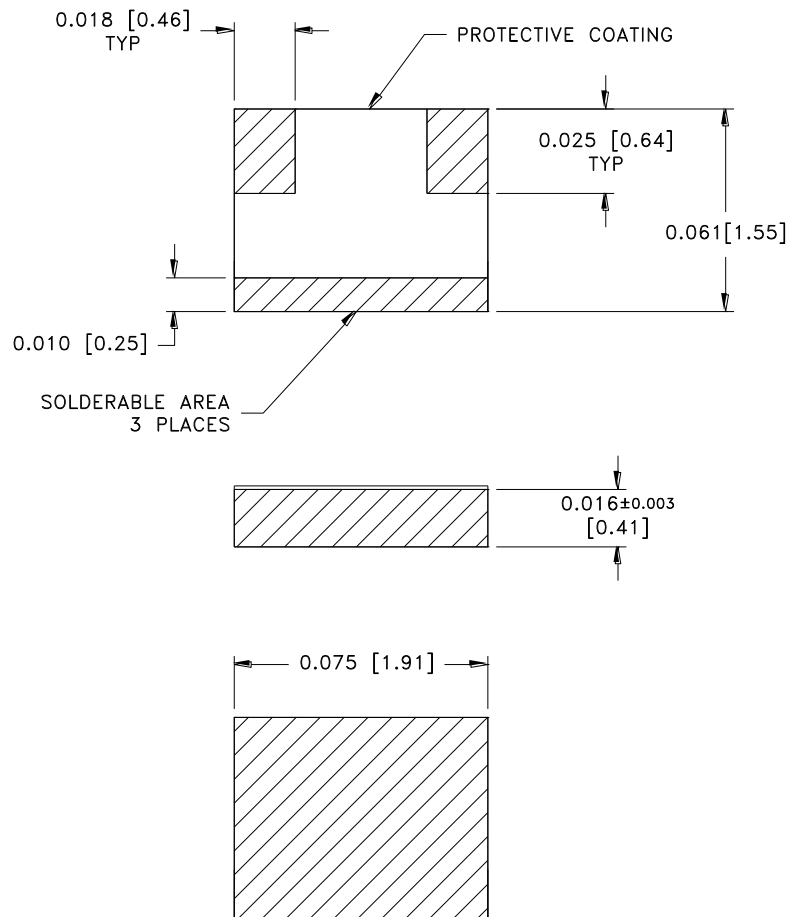
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## 6.0 MECHANICAL

Substrate Material: Alumina, 96% MIL-I-10  
 Terminal Material: Thick Film, nickel barrier, solder plated  
 Workmanship: Per MIL-PRF-55342  
 Resistive Element: Thick Film  
 Metric Dimensions: Provided for reference only



Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005