

ATTENUATOR TEMPERATURE VARIABLE

DATASHEETPART SERIES: MTVA0X00N0XWB1

Sheet 1 of 2

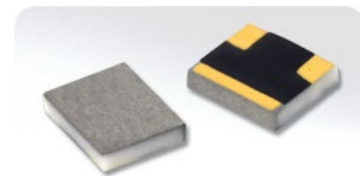
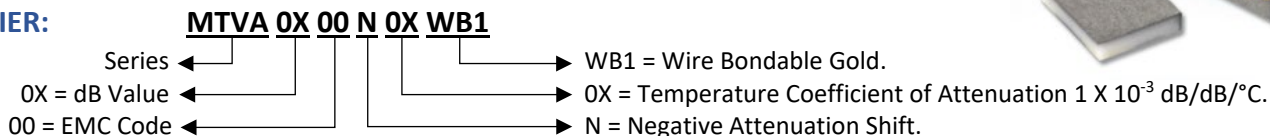
ECO-139515

Doc# MTVA0X00N0XWB1-1007755

Revision AA

ORDERING INFORMATION

PART IDENTIFIER:



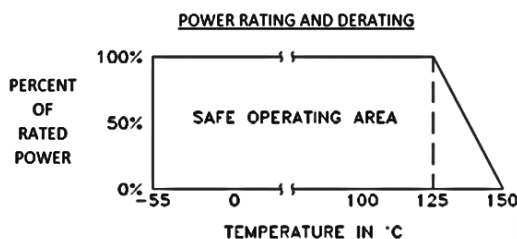
SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 Ω.  
 Frequency Range: DC-12.4 GHz.  
 Attenuation Values Available: See Table Below.

		DC – 12.4 GHz							
		Temperature Coefficient of Attenuation (dB/dB/°C) "Shift"							
dB Value		-0.002	-0.003	-0.004	-0.005	-0.006	-0.007	-0.008	-0.009
1dB			X	X	X	X	X		
2dB			X	X	X	X	X		X
3dB			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
7dB									X
8dB			X		X		X		X

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

2.0 ENVIRONMENTAL

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

3.0 MARKING

Unit Marking: None.

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**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:

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

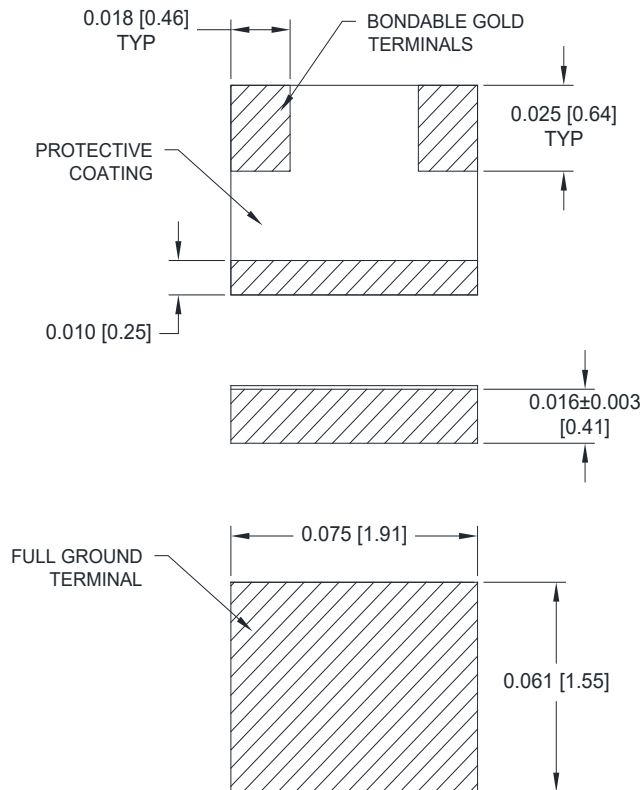
Inspection in accordance with 824W107  
 Test Data Requirements:  
 No Data Required for Customer  
 Data Retention – 24 Months

**5.0 PACKAGING**

Standard: Tape and Reel.

**6.0 MECHANICAL**

Substrate Material: Alumina, 96% MIL-I-10.  
 Terminal Material: Thick Film, Bondable gold.  
 Workmanship: Per MIL-PRF-55342.  
 Resistive Element: Thick Film.  
 Ground Plane: Thick Film.  
 Metric Dimensions: Provided for reference only.



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