

## ATTENUATOR HIGH RELIABILITY CHIP 200 MILLIWATTS

DATASHEET PART SERIES: HRMXXXXXXXXW3

Sheet 1 of 2  
Doc# HRMXXXXXXXXW3-1009835ECO-084379  
Revision F

## ORDERING INFORMATION

## Part Identifier:

HRMXX XX XXW3

- XX-Temperature Coefficient of Attenuation  $1 \times 10^{-3}$  dB/dB/°C.
- X-Attenuation Shift Negative or Positive.
- XX-Test Code: 0A=Group A; 0B=Group B; 0C=Group C.
- XX-dB Value.



## SPECIFICATIONS

## 1.0 ELECTRICAL

Nominal Impedance:	50 $\Omega$ .
Frequency Range:	DC – 12.4 GHz.
Attenuation Values Available:	0-10 dB in 1 dB increments.
Attenuation Accuracy @ 25°C:	$\pm 0.5$ dB @ 1GHz.
VSWR:	1.30:1 Max @ 1GHz.
Input Power	200 Milliwatts Full Rated Power To 125°C, Derated Linearly to 0 Watts at 150°C.
Temperature Coefficient of	-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.
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## 3.0 MARKING

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

- Verify 100% Visual Pre-Cap Inspection Performed Per TP-8965.
- Perform Group A, B and/or C testing as indicated by the part number per TP-8965.
- Test Data requirements:
  - Test data required for customer see TP-8965.
  - Data retention – 24 months.
  - Test samples required for customer see TP-8965.

## 5.0 PACKAGING

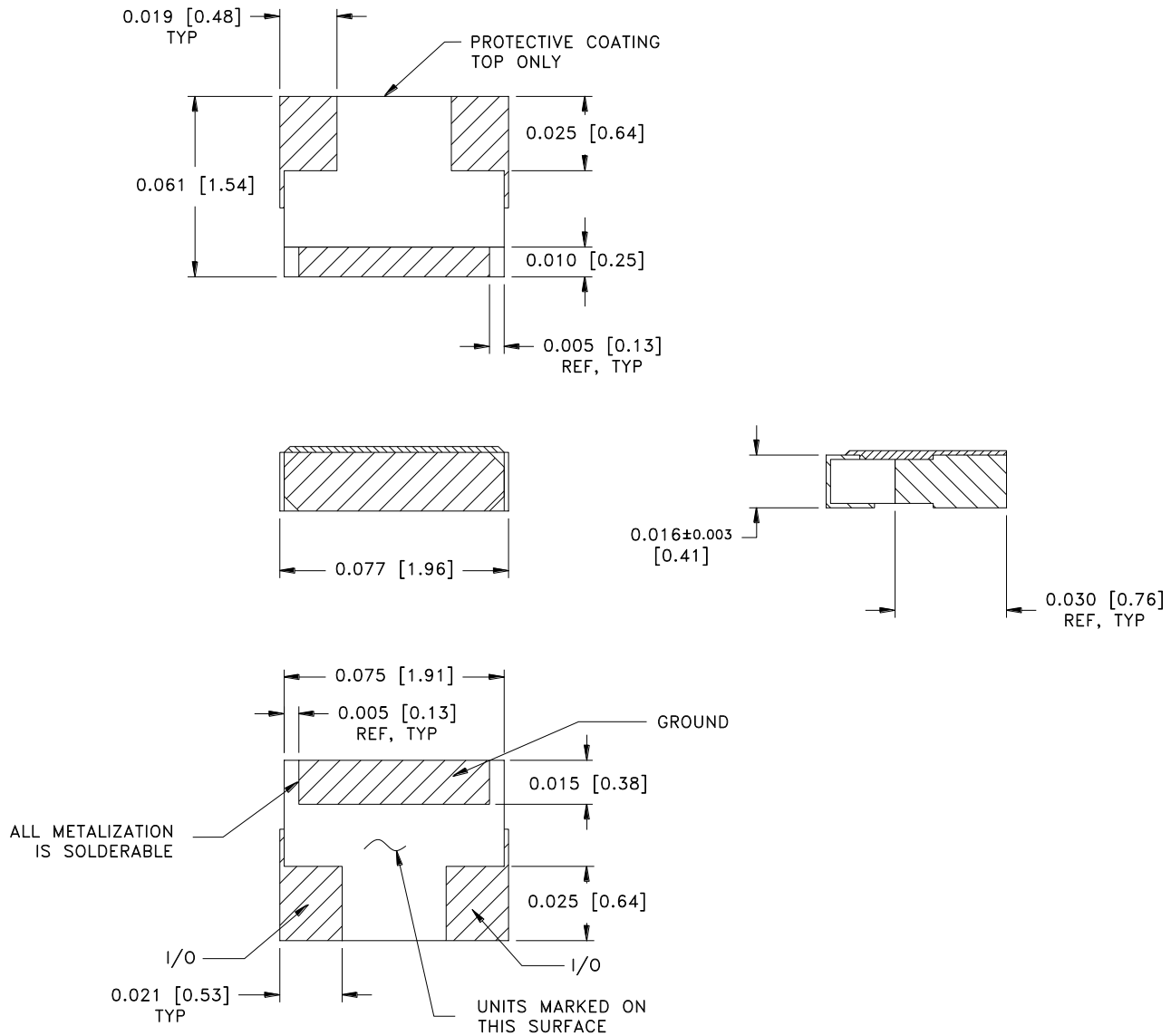
Standard Packaging:	Serialized Waffle Pack.
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## 6.0 MECHANICAL

Substrate Material:	Alumina 96%.
Resistive Film:	Thick Film.
Terminal Material:	Thick Film, Nickel Barrier, Solder Plated.
Metric Dimensions:	Provided for reference only.
Workmanship	PER MIL-STD-130.

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

## 7.0 FOOTPRINT

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
HRMXXXXXXXXW3	0.022	0.028	0.041	0.013	0.026	0.075	0.56	0.71	1.04	0.33	0.66	1.91

