



ATTENUATOR TEMPERATURE VARIABLE

DATASHEET PART SERIES:AN3-XNXW3F

Sheet 1 of 3

ECO-083699

Doc# AN3-XNXW3F-1011585

Revision C

ORDERING INFORMATION

Part Identifier:

AN3-XNXW3F

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



SPECIFICATIONS

1.0 ELECTRICAL

| | |
|---|--|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC – 4 GHz |
| Attenuation Values Available: | 1-10 dB in 1 dB increments |
| Attenuation Accuracy: | @ 25°C: ± 0.75 dB @ 1GHz |
| VSWR: | 1.35:1 Max |
| Input Power | 2 Watts Full Rated Power To 125°C, Derated Linearly to 0 Watts at 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 |

2.0 ENVIRONMENTAL

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

3.0 MARKING

| | |
|---------------|--|
| Unit Marking: | dB Value (XX), Direction of Shift (N) And TCA Shift (X). |
|---------------|--|

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 |
|-----------|---------------|



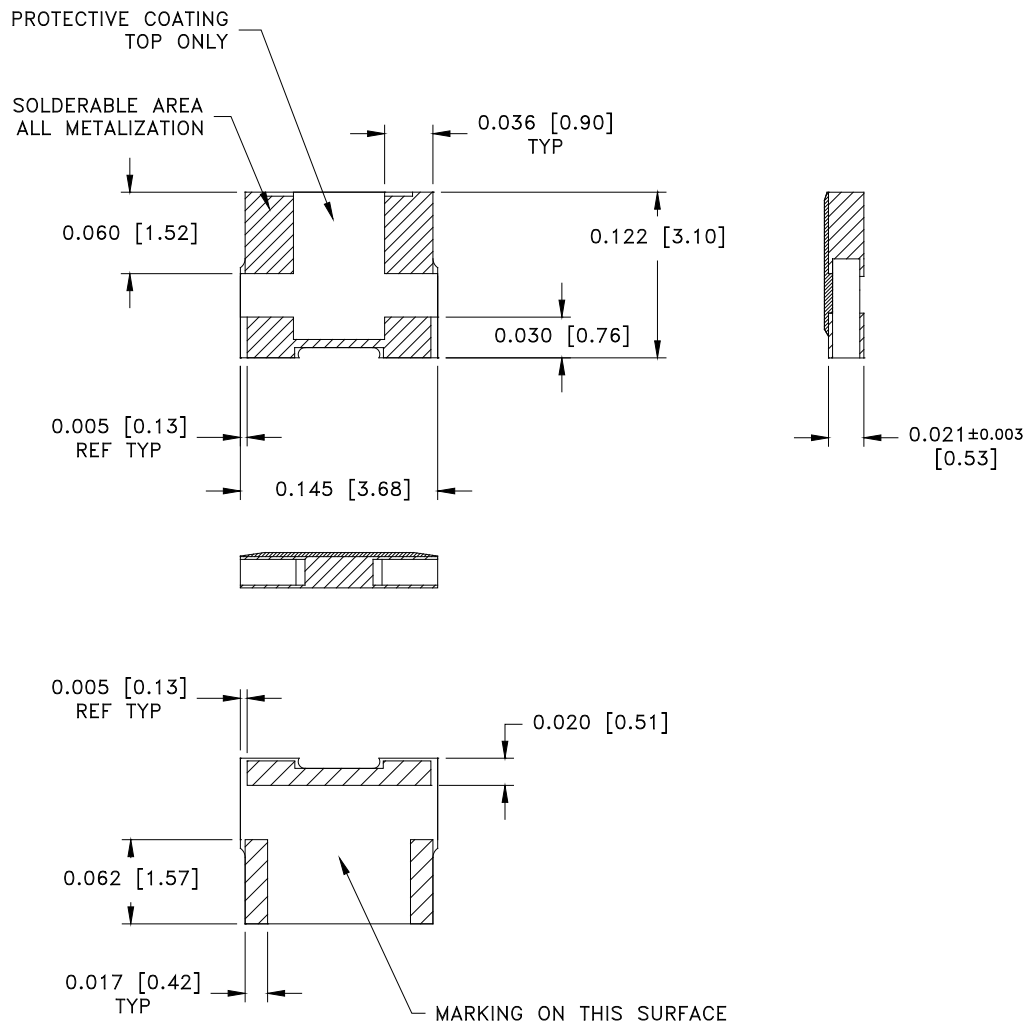
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6.0 MECHANICAL

Substrate Material: Alumina
Terminal Material: Thick Film, Lead Free Plating
Workmanship: PER MIL-PRF-55342
Resistive Element: Thick Film
Metric Dimensions: Provided for reference only



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



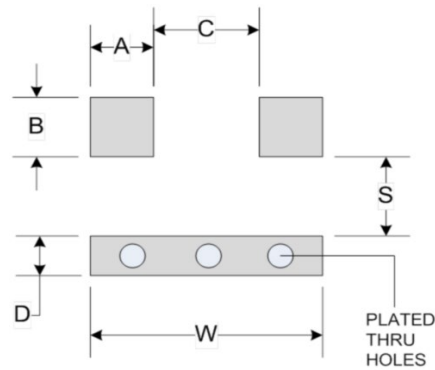
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7.0 FOOTPRINT

| Part Number | Inches | | | | | | mm | | | | | |
|-------------|--------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| | A | B | C | D | S | W | A | B | C | D | S | W |
| AN3-XNXF | 0.043 | 0.063 | 0.067 | 0.035 | 0.032 | 0.152 | 1.09 | 1.60 | 1.70 | 0.89 | 0.81 | 3.86 |



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