

ATTENUATOR

HIGH RELIABILITY CHIP 2 WATT



DATA SHEET

PART SERIES: HRTXXXXXXXXW3S

SHEET 1 OF 2
Dwg 1009765

EN 16-0741
Revision G

FEATURES

- Small Footprint
- High Power
- Surface Mount
- Low VSWR
- Easy Installation
- Wide Attenuation Offering

APPLICATIONS

- Mobile Networks
- Broadcast
- High Power Amplifiers
- Isolators/Circulators
- Military
- Instrumentation

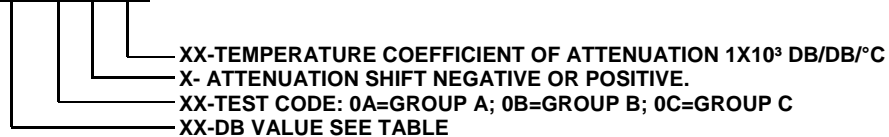


GENERAL DESCRIPTION

EMC Technology offers the widest selection of chip attenuators worldwide. We offer a line of fixed attenuators in a high-reliability S-level common platform for space, military, and aerospace designs. The standard parts eliminate the need for costly and time-consuming drawings and specifications meeting the specification and testing requirements of Mil-PRF-55342. Parts may be ordered 100% tested to Group A with the option to add Group B or Group C. With our smart part numbering system, companies may designate the level of testing they require simply by indicating Group A, B, & C at the appropriate location in the part number.

ORDERING INFORMATION

Part Identifier: HRTXXXXXXXXW3S



SPECIFICATIONS

1.0 ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC – 6 GHz |
| Attenuation Values Available: | 1 – 10 in 1 dB increments |
| Attenuation Accuracy @ 25°C: | ± 0.5 dB @ 1GHz |
| VSWR: | 1.30:1 MAX. @ 1GHZ. |
| Input Power CW: | Negative shifting: 2 watts cw. Positive shifting: 0.25 watts cw. 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 .0003, 0.005, 0.006, 0.007, 0.008 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 or P) and TCA shift (X). |
|---------------|---|

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4.0 QUALITY ASSURANCE

Visual 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

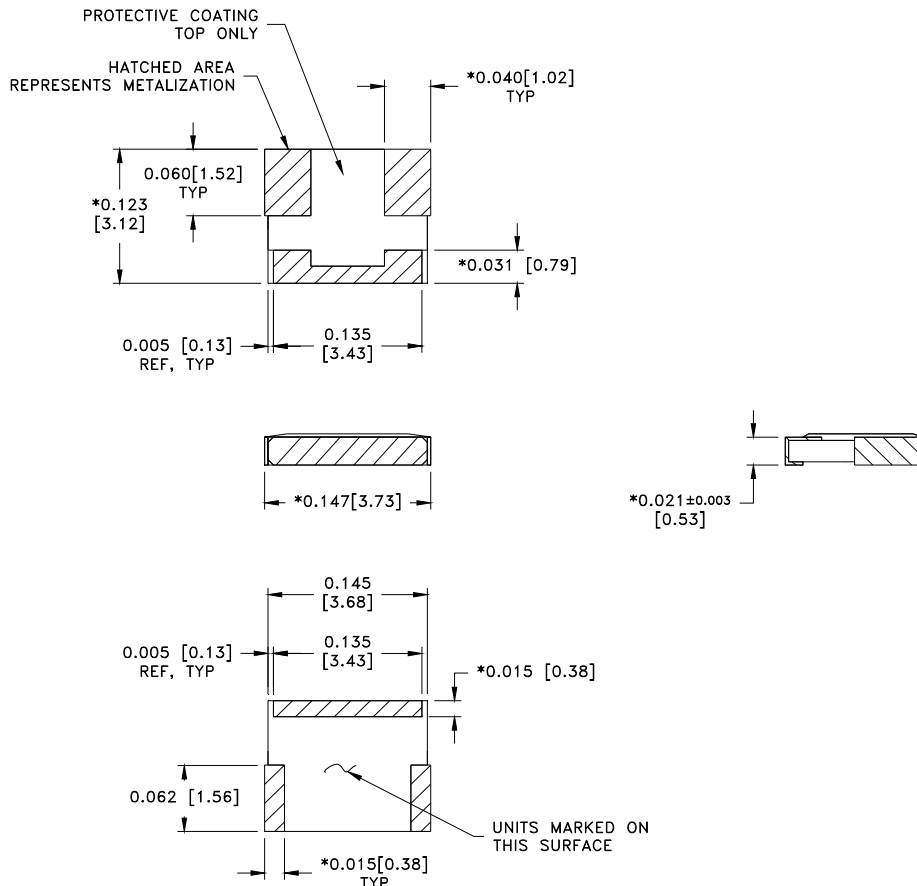
Test samples required for customer see TP-8965.

5.0 PACKAGING

Standard Packaging: Waffle Pack

6.0 MECHANICAL

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



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