# ATTENUATOR HIGH RELIABILITY CHIP 2 WATT



#### DATA SHEET

#### PART SERIES: HRTXXXXXXXW1

#### SHEET 1 OF 2 Dwg 1009735

EN 16-0741 Revision <u>B</u>

# **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**



- XX-TEMPERATURE COEFFICIENT OF ATTENUATION 1X10<sup>3</sup> DB/DB/°C - X- ATTENUATION SHIFT NEGATIVE OR POSITIVE. - XX-TEST CODE: 0A=GROUP A; 0B=GROUP B; 0C=GROUP C - XX-DB VALUE SEE TABLE

# SPECIFICATIONS

# 1.0ELECTRICAL

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	n:-0.003, -0.004, -0.005, -0.006, -0.007, and -0.009 dB/dB/ºC
	.0.003, 0.005, 0.006, 0.007 and 0.008 dB/dB/ºC
Temperature Coefficient Tolerance:	± 0.001 dB/dB/ºC

# 2.0 ENVIRONMENTAL

Operating Temperature: -55°C
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# 3.0 MARKING

Unit Marking:

None

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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.

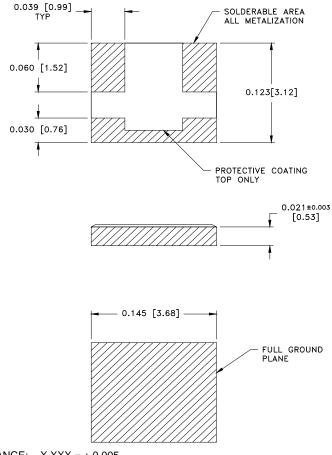
# **5.0 PACKAGING**

Standard Packaging:

Waffle Pack

# **6.0 MECHANICAL**

Substrate Material:Alumina, MIL-I-10Resistive Film:Thick FilmTerminal Material:Thick Film, Nickel Barrier, Solder PlatedMetric Dimensions:Provided for reference onlyWorkmanshipPER MIL-PRF-55342



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

Cage Codes: 24602 / 2Y194 Specifications are Subject to Change Without Notice