ATTENUATOR

HIGH RELIABILITY CHIP 200 MILLIWATTS



PART SERIES: HRMXXXXXXX DATA SHEET

SHEET 1 OF 3 Dwg 1009785

EN 16-0723 Revision E

FEATURES

APPLICATIONS

Small Footprint Mobile Networks High Power Broadcast

High Power Amplifiers Surface Mount Low VSWR Isolators/Circulators

Easy Installation Military

Wide Attenuation Offering 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:

HRMXXXXXXX XX-Temperature Coefficient of Attenuation 1 x 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 ohms Frequency Range: DC - 18 GHz

> -.003 dB/dB/ °C Thru -.005 dB/dB/ °C DC - 18 GHz -.006 dB/dB/ °C Thru -.009 dB/dB/ °C DC - 12.4 GHz

0-10 dB in 1 dB increments Attenuation Values Available:

Attenuation Accuracy @ 25°C: ± 0.5 dB @ 1GHz VSWR: 1.30:1 Max @ 1GHz

200 Milliwatts Full Rated Power To 125 °C, Derated Linearly to 0 Watts at 150 °C. Input Power

Temperature Coefficient of Attenuation:-0.003, -0.004, -0.005, -0.006, -0.007, and -0.009 dB/dB/ºC

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 (X), Direction of Shift (N) and TCA Shift (X).

ATTENUATOR

HIGH RELIABILITY CHIP 200 MILLIWATTS



DATA SHEET PART SERIES: HRMXXXXXXX

SHEET 2 OF 3 Dwg 1009785 EN 16-0723 Revision E

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

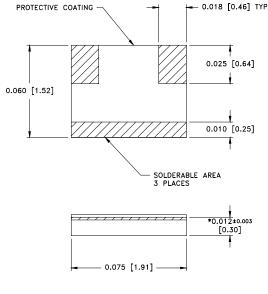
6.0 MECHANICAL

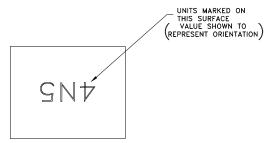
Substrate Material: Alumina 96% Resistive Film: Thick Film

Terminal Material: Thick Film, Nickel Barrier, Solder Plated

Metric Dimensions: Provided for reference only

Workmanship PER MIL-STD-130





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

ATTENUATOR

HIGH RELIABILITY CHIP 200 MILLIWATTS



DATA SHEET

PART SERIES: HRMXXXXXXX

SHEET 3 OF 3 Dwg 1009785

EN 16-0723 Revision E

7.0 FOOTPRINT

		Inches						mm					
	Part Number	Α	В	С	D	S	W	Α	В	С	D	S	W
ſ	HRMXXXXXXX	0.022	0.028	0.041	0.013	0.026	0.075	0.56	0.71	1.04	0.33	0.66	1.91

