

TITLE: SPECIFICATION CONTROL DRAWING**PART IDENTIFIER:** HRKFAXX.00XX

X = FREQUENCY RANGE SEE TABLE 1

X = TEST CODE A=GROUP A, B=GROUP B AND C=GROUP C

XX ATTENUATION VALUE

TABLE 1

| NUMBER CODE | FREQUENCY RANGE (GHZ) |
|----------------|--------------------------|
| 5 | 16-36 |

DESCRIPTION: HIGH RELIABILITY CHIP ATTENUATOR (K-BAND).**ASSEMBLY DWG:** N/A**1.0 SPECIFICATIONS:****1.1 ELECTRICAL:**

1.1.1 OPERATING FREQUENCY RANGE (BANDWIDTH): SEE TABLE 1.

1.1.2 ATTENUATION VALUES: 1-10 DB

1.1.3 ATTENUATION TOLERANCE AT 25°C: ± 0.75 dB.

1.1.4 POWER DISSIPATION: 200 mW @ +100°C, DERATED LINEARLY TO ZERO WATT @ +150°C.

1.1.5 VSWR: 1.35:1 TYPICAL

1.2 MECHANICAL:

1.2.1 OUTLINE DWG AND DERATING CURVE: SEE SHEET 3.

1.2.2 WORKMANSHIP: PER MIL-PRF-55342.

1.3 ENVIRONMENTAL:

1.3.1 OPERATING TEMPERATURE RANGE: -55°C TO +150°C.

1.3.2 STORAGE TEMPERATURE: -55°C TO +150°C.

2.0 UNIT MARKING: DB VALUE

LEGIBILITY AND PERMANENCY PER MIL-STD-130.

3.0 QUALITY ASSURANCE:

3.1 VERIFY 100% VISUAL PRE-CAP INSPECTION PERFORMED PER TP-9010

3.2 PERFORM GROUP A, B AND/OR C TESTING AS INDICATED BY THE PART NUMBER PER TP-9010.

3.3 TEST DATA REQUIREMENTS:

3.3.1 TEST DATA REQUIRED FOR CUSTOMER - SEE PARAGRAPH 5.0 OF TP-9010.

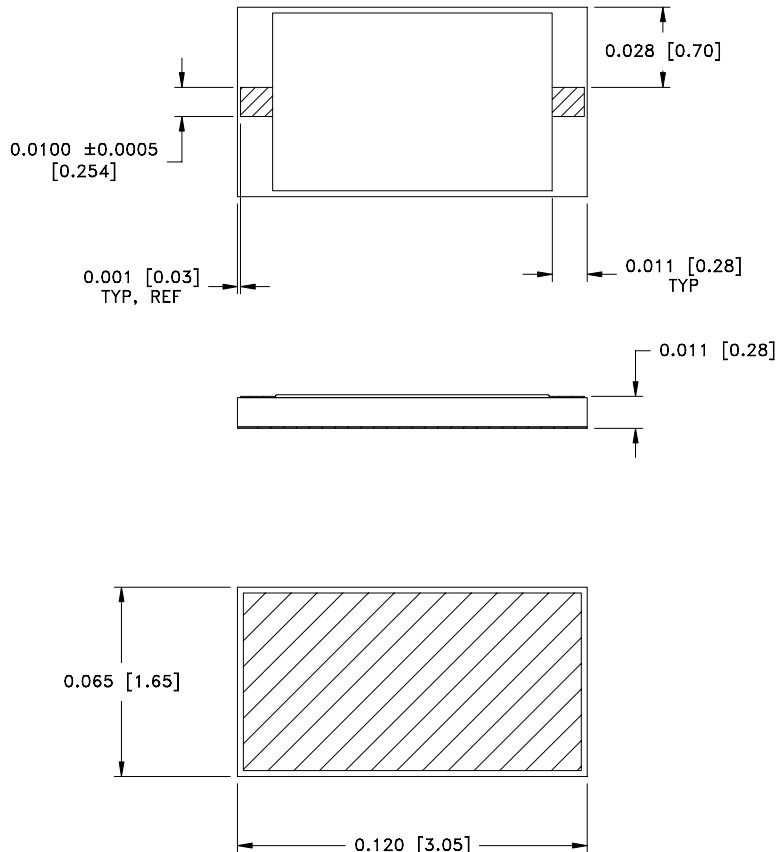
3.3.2 DATA RETENTION - 24 MONTHS.

3.3.3 TEST SAMPLES REQUIRED FOR CUSTOMER - SEE PARAGRAPH 5.0 OF TP-9010.

4.0 PACKAGING: STANDARD WAFFLE PACKING PER 755W002.

| | | | | |
|--|--------------------------|-------------|----------------|------------|
| EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997 | CAGE CODE # 24602 | | DWG # | 1011785000 |
| | CHANGE NOTICE | PRELIMINARY | REV LVL | 2 |
| | | | SHEET | 1 OF 2 |

| |
|--------------|
| PART ID REF |
| HRKFAXX.XXXX |

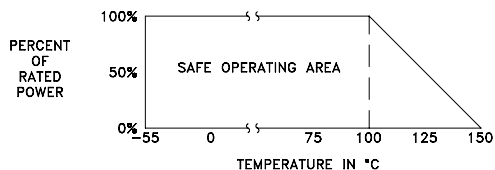



MECHANICAL SPECIFICATIONS:

SUBSTRATE:
MATERIAL - ALUMINA, MIL-I-10.
TERMINAL:
MATERIAL - THICK FILM, BONDABLE GOLD.
GROUND PLANE:
MATERIAL - THICK FILM.
PROTECTIVE COATING:
MATERIAL - EPOXY BASED.
RESISTIVE ELEMENT:
MATERIAL - THICK FILM.

METRIC EQUIVALENTS GIVEN IN [mm]
FOR REFERENCE INFORMATION ONLY

POWER RATING AND DERATING



| | | | | | | |
|---|---|---|---|---------------|------------|-------------|
|  8851 SW OLD KANSAS AVE STUART, FL 34997 PHONE NO. (772) 286-9300 FAX NO. (772) 283-5286 | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF EMC TECHNOLOGY INC AND SHALL NOT BE DUPLICATED OR USED AS BASIS FOR THE MANUFACTURE OR SALE OF PARTS OR DEVICES WITHOUT PERMISSION. | | | |
| | TOLERANCES | | CAGE CODE | SCALE | DRAWN BY | CHECKED BY |
| | FRACT --- | | 24602 | 25:1 | DAR | |
| | ANG --- | | REV | CHANGE NOTICE | DRAWING NO | APPROVED BY |
| XX --- | | 3 | PRELIMINARY | 1011785000 | 2 | OF 2 |
| XXX ±0.005 | | 4 | | | | |
| XXXX --- | | | | | | |