

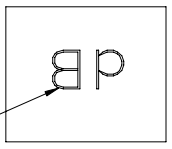
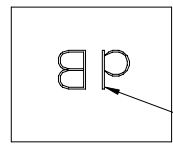
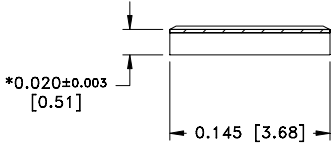
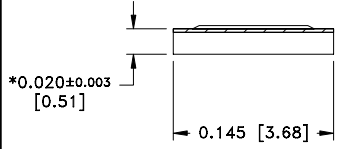
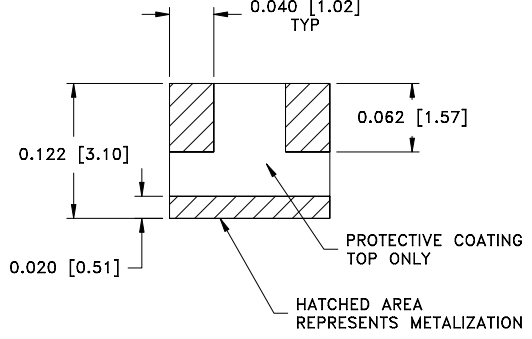
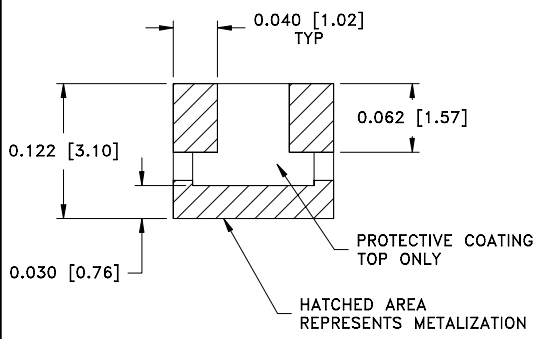


- 3.2.2 GROUP B TESTING (7 SAMPLES APPROVED FROM GROUP A).
  - 3.2.2.1 SUB-GROUP 1 (3 SAMPLES)
    - 3.2.2.1.1 LOW TEMPERATURE OPERATION
      - 3.2.2.1.1.1 USE FINAL ELECTRICAL MEASUREMENTS FROM GROUP A
      - 3.2.2.1.1.2 DISSIPATE LOW POWER FOR A DURATION OF 45 +5/-0 MINUTES. ALLOW TO STABILIZE AT 25°C FOR 24 HOURS.
    - 3.2.2.1.2 AFTER LOW TEMPERATURE ELECTRICAL MEASUREMENTS - MEASURE AND RECORD VSWR @ 1 GHZ AND ATTENUATION AT DC (0 GHZ) AND 1.0 GHZ.
    - 3.2.2.1.3 HIGH TEMPERATURE BAKE – +125°C +/- 5°C FOR 100 HRS THEN STABILIZE AT 25°C FOR 4 HRS.
      - 3.2.2.1.3.1 VISUAL EXAMINATION - INSPECT FOR EVIDENCE OF MECHANICAL DAMAGE.
    - 3.2.2.1.4 AFTER HIGH TEMPERATURE BAKE ELECTRICAL TEST - MEASURE AND RECORD VSWR @ 1 GHZ AND ATTENUATION AT DC (0 GHZ) AND 1.0 GHZ.
    - 3.2.2.1.5 TERMINATION ADHESION - SOLDER A WIRE AND PULL WITH 15 GRAMS PERPENDICULAR TO AND AWAY FROM THE SURFACE AREA.
      - 3.2.2.1.5.1 VISUAL INSPECTION – THERE SHALL BE NO SEPARATION OF MATERIAL.
    - 3.2.2.1.6 TERMINATION SOLDERABILITY IMMERSE EACH SAMPLE 5 SECONDS IN A SOLDER POT HELD AT 220°C +/- 5°C USING 60/40 OR 63/37 TIN-LEAD COMPOSITION.
  - 3.2.2.2 SUB-GROUP 2 (4 SAMPLES)
    - 3.2.2.2.1 INITIAL RF MEASUREMENTS - USE FINAL ELECTRICAL MEASUREMENTS FROM GROUP A.
    - 3.2.2.2.2 LIFE TEST – OPERATE SAMPLES UNITS FOR 1000 HRS AT 70°C AT INPUT POWER PER 1.1.6. ELECTRICAL MEASUREMENTS SHALL BE MADE AT 250 +48/-0 HRS, 500 +48/-0 HRS, AND 1000 +48/-0 HRS.
    - 3.2.2.2.3 FINAL RF MEASUREMENTS - MEASURE AND RECORD VSWR @ 1 GHZ AND ATTENUATION AT DC (0 GHZ) AND 1.0 GHZ.
- 3.2.3 GROUP C (QCI TESTING 4 SAMPLES APPROVED FROM GROUP A).
  - 3.2.3.1 LOAD LIFE TEST – BURN-IN UNITS AT 70°C WITH INPUT POWER PER 1.1.6 FOR A DURATION OF 1000 HOURS (1½ HOURS ON, ½ HOUR OFF). MEASURE AND RECORD ELECTRICALS AT 0, 250, 500, AND 1000 HOURS.
  - 3.2.3.2 AFTER LOAD LIFE RF MEASUREMENTS - MEASURE AND RECORD VSWR AND ATTENUATION AT 1 GHZ AT 25°C. TEST ACCEPTABLE LIMITS PER 4.2.1 OF TP-8965.
- 3.4 TEST DATA REQUIREMENTS:
  - 3.4.1 TEST DATA REQUIRED FOR CUSTOMER - SEE PARAGRAPH 5.0 OF TP-8965.
  - 3.4.2 DATA RETENTION - 24 MONTHS.
  - 3.4.3 TEST SAMPLES REQUIRED FOR CUSTOMER - SEE PARAGRAPH 5.0 OF TP-8965.

4.0 **PACKAGING:** STANDARD PACK PER MC0023. (SERIALIZED WAFFLE PACK)

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1009885000
	<b>CHANGE NOTICE</b>	EN 03-287	<b>REV LVL</b>	-
			<b>SHEET</b>	2 OF 3

PART ID REF  
HR03XXXS



UNITS MARKED ON THIS SURFACE

1-10dB

11-20dB

**MECHANICAL SPECIFICATIONS:**

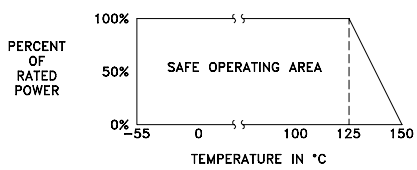
SUBSTRATE:  
MATERIAL - ALUMINA 96%, MIL-I-10.  
TERMINAL:  
MATERIAL - THICK FILM, NICKEL BARRIER,  
SOLDER FUSE COATED.  
RESISTIVE ELEMENT:  
MATERIAL - THIN FILM, TANTALUM NITRIDE.

METRIC EQUIVALENTS GIVEN IN [mm]  
FOR REFERENCE INFORMATION ONLY



\* DIMENSIONS APPLY BEFORE SOLDER, ALLOW 0.015 MAX FOR ALL PRETINNED SURFACES.

**POWER RATING AND DERATING**



**EMC Technology**  
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  
**TOLERANCES**  
FRACT ---  
ANG ---  
XX ---  
XXX ±0.005  
XXXX ---

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CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	10:1	JG 12/5/03		
REV	CHANGE NOTICE	DRAWING NO	SHEET	
-	EN 03-287	1009885000	3 OF 3	