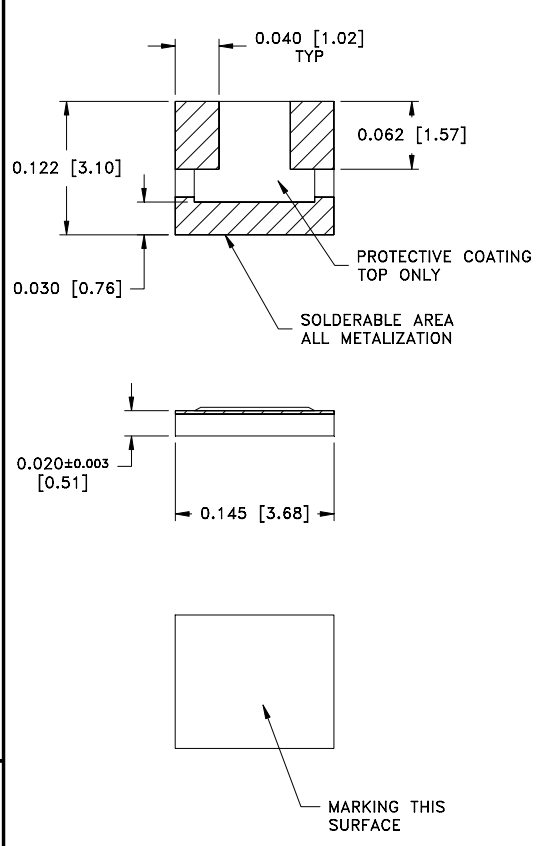


- 3.2.2 GROUP B TESTING (7 SAMPLES APPROVED FROM GROUP A).
 - 3.2.2.1 SUB-GROUP 1 (3 SAMPLES)
 - 3.2.2.1.1 LOW TEMPERATURE OPERATION
 - 3.2.2.1.1.1 USE FINAL ELECTRICAL MEASUREMENTS FROM GROUP A
 - 3.2.2.1.1.2 DISSIPATE LOW POWER FOR A DURATION OF 45 +/-0 MINUTES. ALLOW TO STABILIZE AT 25°C FOR 24 HOURS.
 - 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.

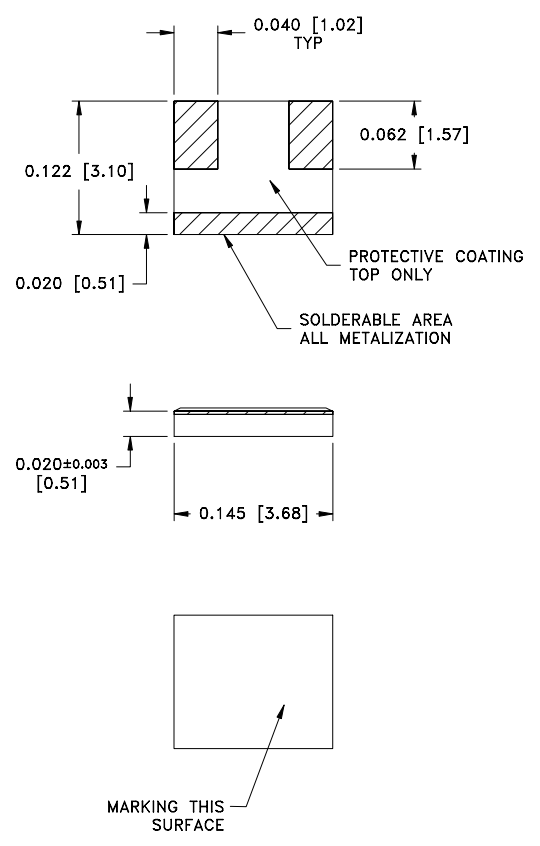
4.0 PACKAGING: STANDARD PACK PER MC0023. (SERIALIZED WAFFLE PACK)

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	CAGE CODE # 24602		DWG #	1009875000
	CHANGE NOTICE	EN 03-287	REV LVL	-
			SHEET	2 OF 3

PART ID REF
 HRO3XXX



0-10dB



11-20dB

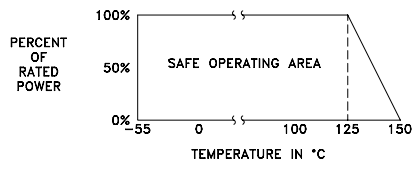
MECHANICAL SPECIFICATIONS:

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



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 TOLERANCES FRACT --- ANG --- XX --- XXX ±0.005 XXXX ---	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.			
	CAGE CODE 24602	SCALE 10:1	DRAWN BY JG 12/5/03	CHECKED BY	APPROVED BY
REV —	CHANGE NOTICE EN 03-287	DRAWING NO 1009875000	SHEET 3 OF 3		