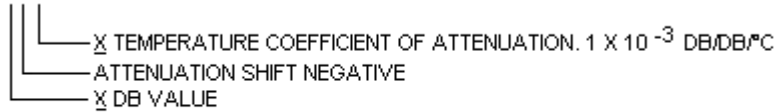


**TITLE: SPECIFICATION CONTROL DRAWING**



**PART IDENTIFIER:** AN5-XNXF



SHIFT (NEG)	DB VALUE
-003	1, 2, 3, 4, 5, 6, 8
-004	1, 2, 3, 4, 6
-005	1, 2, 3, 4, 5, 6
-006	2, 3, 4
-007	2, 3, 4, 5, 6
-009	3, 4, 6

**DESCRIPTION:** CHIP ATTENUATOR NETWORK, ROHS COMPLIANT

**ASSEMBLY DWG:** N/A

**1.0 SPECIFICATIONS:**

- 1.1 ELECTRICAL:
  - 1.1.1 IMPEDANCE: 50 OHMS NOMINAL.
  - 1.1.2 OPERATING FREQUENCY RANGE: DC – 6.0 GHz
  - 1.1.3 ATTENUATION VALUES AVAILABLE: SEE ABOVE DESCRIPTION.
  - 1.1.4 ATTENUATION ACCURACY AT 25°C: ±.75 dB AT 2 GHz.
  - 1.1.5 VSWR: 1.30:1 MAX @ 1 GHz
  - 1.1.6 INPUT POWER: 200 MILLIWATTS.
    - 1.1.6.1 FULL RATED POWER TO 105°C DERATED TO 0 WATTS AT 125°C.
- 1.2 MECHANICAL:
  - 1.2.1 OUTLINE DWG: SEE SHEET 2.
- 1.3 ENVIRONMENTAL:
  - 1.3.1 OPERATING TEMPERATURE RANGE: -35°C TO + 125°C.

**2.0 UNIT MARKING:** DB VALUE (X), DIRECTION OF SHIFT (N) AND TCA SHIFT (X).  
LEGIBILITY AND PERMANENCY PER MIL-STD-130.

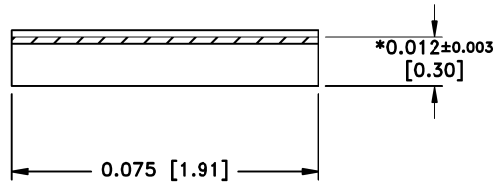
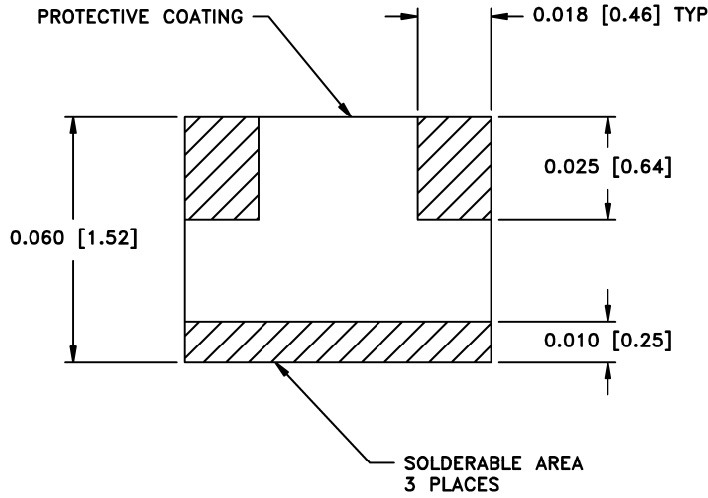
**3.0 QUALITY ASSURANCE:**

- 3.1 SAMPLE INSPECT PER ANSI/ASQC Z1.4 GENERAL INSPECTION, LEVEL II, AQL = 1.0.
  - 3.1.1 VISUAL AND MECHANICAL EXAMINATION FOR CONFORMANCE TO OUTLINE DRAWING REQUIREMENTS.
- 3.2 SAMPLE INSPECTION (DESTRUCTIVE TESTING).
  - 3.2.1 SELECT THREE (3) UNITS FROM LOT AND MEASURE DCA EVERY 20°C OVER THE TEMPERATURE RANGE -55°C TO +125°C.
    - 3.2.1.1 CALCULATE, USING LINEAR REGRESSION, THE SLOPE OF THE CURVE.
    - 3.2.1.2 CALCULATE TCA USING THE FOLLOWING FORMULA:  

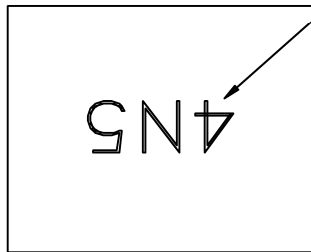
$$TCA = \frac{SLOPE}{ATTENUATION @ 25^{\circ}C}$$
    - 3.2.1.3 ACCEPTANCE LIMITS: PER 1.1.7.
- 3.3 INSPECTION IN ACCORDANCE WITH 824W170 AND 824F036 FOR COMMERCIAL GRADE PRODUCT.
- 3.4 TEST DATA REQUIREMENTS:
  - 3.4.1 NO TEST DATA REQUIRED FOR CUSTOMER.
  - 3.4.2 DATA RETENTION - 24 MONTHS.

**4.0 PACKAGING:** STANDARD TAPE AND REEL PACK PER 755W002.

<b>EMC TECHNOLOGY</b> 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	1011275000
	<b>CHANGE NOTICE</b>	EN 09-E0733	<b>REV LVL</b>	C
			<b>SHEET</b>	1 OF 2



UNITS MARKED ON  
THIS SURFACE  
VALUE SHOWN TO  
(REPRESENT ORIENTATION)

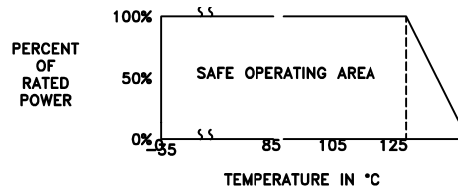


**MECHANICAL SPECIFICATIONS:**

SUBSTRATE:  
MATERIAL - ALUMINA 96%, MIL-I-10.  
TERMINAL:  
MATERIAL - THICK FILM, LEAD FREE PLATING,  
RoHS COMPLIANT.  
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

**TOLERANCES**

FRACT	---
ANG	---
XX	---
XXX	±0.005
XXXX	---

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CAGE CODE	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
24602	32:1	JG 2/26/09		
REV	CHANGE NOTICE	DRAWING NO	SHEET	
C	EN 09-E0733	1011275000	2 OF 2	