SPECIFICATION CONTROL DRAWING TITLE:

PART IDENTIFIER: AN7-CUSTOM **ICUSTOMIZABLE AN7 KIT1**

25 PIECES OF EACH PART NUMBER SELECTED. 5 AN7-XNXF CUSTOMER TO PICK ATTENUATION AND SHIFT. SEE BELOW FOR AVAILABLE VALUES.

PART IDENTIFIER REF: AN7-XNXF

X = TEMPERATURE COEFFICIENT OF ATTENUATION. 1 X 10⁻³ DB/DB/°C.N = ATTENUATION SHIFT NEGATIVE.

X = DB VALUE SEE TABLE BELOW.

SHIFT (NEG)	DB VALUE	FREQUENCY RANGE
00 <u>3</u>	2, 3, 4, 5, 6	
00 <u>4</u>	2, 3, 4, 5, 6	
00 <u>5</u>	3, 4, 5, 6	
00 <u>6</u>	3, 4, 5, 6	DC – 6 GHZ
00 <u>7</u>	3, 4, 5, 6	
00 <u>9</u>	3, 4, 5, 6	

*CONSULT FACTORY FOR ADDITIONAL VALUES.

DESCRIPTION: TEMPERATURE VARIABLE CHIP ATTENUATOR. (ROHS COMPLIANT)

ASSEMBLY DWG: 2402804

1.0 SPECIFICATIONS:

- **ELECTRICAL:** 1.1
 - IMPEDANCE: 50 OHMS NOMINAL. 1.1.1
 - OPERATING FREQUENCY RANGE: SEE TABLE ABOVE. 1.1.2
 - 1.1.3 ATTENUATION VALUES AVAILABLE: SEE TABLE ABOVE.
 - ATTENUATION ACCURACY AT 25°C: ±0.5DB @ 1 GHZ. 1.1.4
 - VSWR: 1.30:1 MAX. @ 1GHZ. 1.1.5
 - INPUT POWER: 100 MILLIWATTS CW. 1.1.6
 - 1.1.6.1 FULL RATED POWER TO 125°C, DERATED LINEARLY TO 0 WATTS AT 150°C.
 - TEMPERATURE COEFFICIENT OVER OPERATING TEMPERATURE RANGE: 1.1.7

SEE TABLE ABOVE, TEMPERATURE COEFFICIENT TOLERANCE: ±0.001 DB/DB/°C.

- 1.2 MECHANICAL:
 - OUTLINE DWG: SEE SHEET 2. 1.2.1
 - WORKMANSHIP: PER MIL-PRF-55342. 1.2.2
- **ENVIRONMENTAL:** 1.3
 - 1.3.1 OPERATING TEMPERATURE RANGE: -55°C TO +150°C
- 2.0 **UNIT MARKING: ORIENTATION "T"**

LEGIBILITY AND PERMANENCY PER MIL-STD-130

3.0 **QUALITY ASSURANCE:**

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

SLOPE TCA =

ATTENUATION @ 25°C

- 3.2.1.3 ACCEPTANCE LIMITS: PER 1.1.7.
- INSPECTION IN ACCORDANCE WITH 824W170 FOR COMMERCIAL GRADE PRODUCT. 3.3
- 3.4 **TEST DATA REQUIREMENTS:**
 - NO TEST DATA REQUIRED FOR CUSTOMER. 3.4.1
 - DATA RETENTION 24 MONTHS. 3.4.2
- 4.0 **PACKAGING:** STANDARD WAFFLE PACK PER 755W002.

EMC TECHNOLOGY	CAGE CODE # 24602		DWG#	1012005000
8851 SW OLD KANSAS AVE.	CHANGE NOTICE	EN 10-0826	REV LVL	Α
STUART. FL 34997			SHEET	1 OF 2

