



**TITLE: SPECIFICATION CONTROL DRAWING**

PART IDENTIFIER: HR42WXX.XXF  
 TEST CODE (A=GROUP A; B=GROUP B; C=GROUP C)  
 DB VALUE (00.00 - 20.00 & 30.00 DB)

**DESCRIPTION:** FIXED COAXIAL ATTENUATOR

**ASSEMBLY DWG:** N/A

**1.0 SPECIFICATIONS:**

1.1 ELECTRICAL:

1.1.1 IMPEDANCE: 50 OHMS

1.1.2 ATTENUATION VALUES AVAILABLE: 0 – 20 & 30 in 1 DB STEPS

1.1.3 ATTENUATION ACCURACY:

<u>ATTENUATION (dB)</u>	<u>TOLERANCE</u>
0 – 6.0	±0.30 DB
7.0 – 20.0	±0.50 DB
21.0 – 30.0	±0.75 DB

1.1.4 FREQUENCY RANGE: DC - 18 GHZ.

1.1.5 VSWR:

DC - 4 GHz	1.15:1 MAX
4 - 12 GHz	1.25:1 MAX
12.4 - 18 GHz	1.35:1 MAX

1.1.6 POWER (AVE): 2 WATTS (DERATES LINEARLY FROM 25°C TO 10% @ 125°C)

1.1.7 POWER (PEAK): 500 WATTS (AT 5M SECOND PULSE WIDTH & 0.1% DUTY CYCLE)

1.2 MECHANICAL:

1.2.1 OUTLINE DWG: SEE SHEET 2.

1.3 ENVIRONMENTAL:

1.3.1 TEMPERATURE RANGE:

1.3.1.1 OPERATING: -65°C TO +125°C.

**2.0 UNIT MARKING:** "EMCT, PART IDENTIFIER".  
 LEGIBILITY AND PERMANENCY PER MIL-STD-130.

**3.0 QUALITY ASSURANCE:**

3.1 VERIFY 100% INSPECTION PERFORMED PER TP-8980.

3.2 PERFORM GROUP A, B AND/OR C TESTING AS INDICATED BY THE PART NUMBER PER TP-8980.

3.3 TEST DATA REQUIREMENTS:

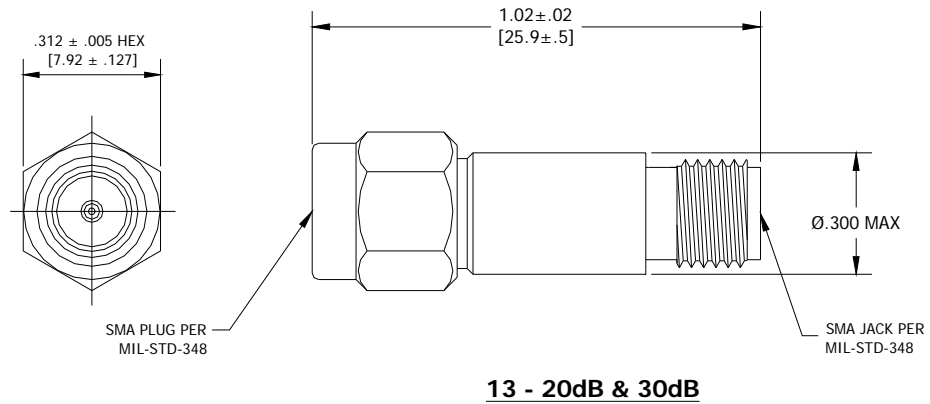
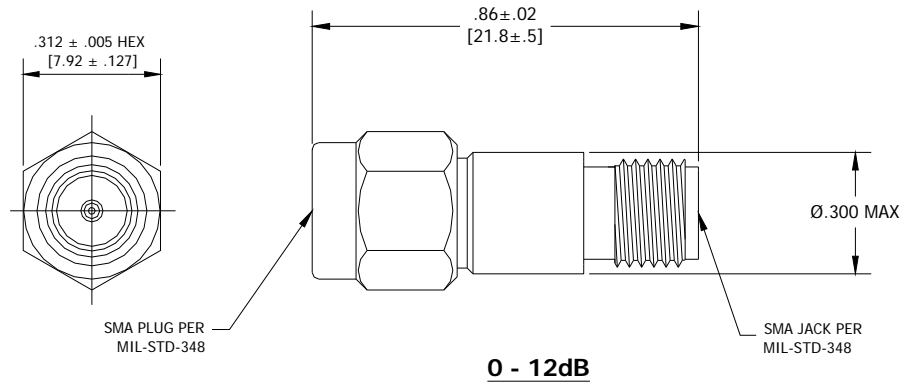
3.3.1 TEST DATA REQUIRED FOR CUSTOMER - SEE PARAGRAPH 5.0 OF TP-8980.

3.3.2 DATA RETENTION - 24 MONTHS.

3.3.3 TEST SAMPLES REQUIRED FOR CUSTOMER - SEE PARAGRAPH 5.0 OF TP-8980.

**4.0 PACKAGING:** STANDARD PACK PER 755W002.

EMC TECHNOLOGY 8851 SW OLD KANSAS AVE. STUART, FL 34997	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	HR42WXX.XXF
	<b>CHANGE NOTICE</b>	12-0900 - PRELIMINARY	<b>REV LVL</b>	1
			<b>SHEET</b>	2 OF 2



METRIC EQUIVALENTS ARE GIVEN FOR REFERENCE ONLY

**MECHANICAL SPECIFICATIONS:**

SMA CONNECTOR HOUSING: PASSIVATED STAINLESS STEEL  
 SMA CONNECTOR CENTER CONDUCTORS: GOLD PLATED BERYLLIUM COPPER  
 RESISTIVE ELEMENT: THIN FILM HYBRID ON 99.6% ALUMINA SUBSTRATE

<b>EMC TECHNOLOGY</b> <b>8851 SW OLD KANSAS AVE.</b> <b>STUART, FL 34997</b>	<b>CAGE CODE # 24602</b>		<b>DWG #</b>	HR42WXX.XXF
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			<b>SHEET</b>	2 OF 2