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## ELECTRICAL

## SPECIFICATIONS

FREQUENCY RANGE \_\_\_\_\_ DC TO 6 GHz

## ATTENUATION

0-6 dB \_\_\_\_\_ ±0.3 dB  
7-10, 20 dB \_\_\_\_\_ ±0.5 dB  
11-19, 21-30 dB \_\_\_\_\_ ±0.7 dB  
40 dB \_\_\_\_\_ ±1.0 dB  
50, 60 dB \_\_\_\_\_ ±2.0 dB  
(AVAILABLE IN 1/2 dB VALUES 0.5 - 10.5 dB)

## VSWR

DC-4 GHz \_\_\_\_\_ 1.15:1 MAX  
4-6 GHz \_\_\_\_\_ 1.25:1 MAX

POWER (AVG) \_\_\_\_\_ 2 WATTS 0.5 dB AND ABOVE  
50 WATTS FOR 0 dB UNIT

DERATED LINEARLY FROM 100% @ +25°C TO 10% @ +125°C

POWER (PEAK) \_\_\_\_\_ 500 WATTS  
5 μS PULSE W, 0.05% DUTY CYCLE

IMPEDANCE \_\_\_\_\_ 50 OHMS

## MECHANICAL

OPERATING TEMP RANGE \_\_\_\_\_ -65 TO +125°C  
1.24 LENGTH / WEIGHT MAX \_\_\_\_\_ 0.40oz. (11.3g)  
1.80 LENGTH / WEIGHT MAX \_\_\_\_\_ 0.60oz. (15.3g)

## MATERIAL

OUTER CONDUCTOR \_\_\_\_\_ STAINLESS STEEL NON  
MAGNETIC, PASSIVATED FINISH.

CENTER CONDUCTOR \_\_\_\_\_ BERYLLIUM COPPER, GOLD PLATED  
FINISH.

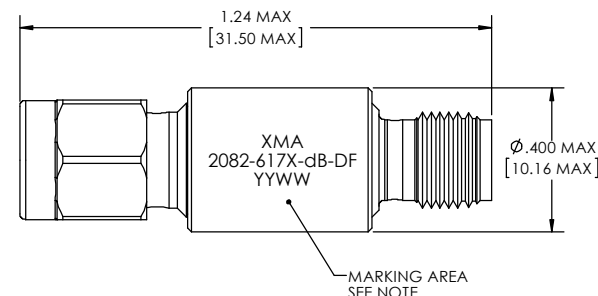
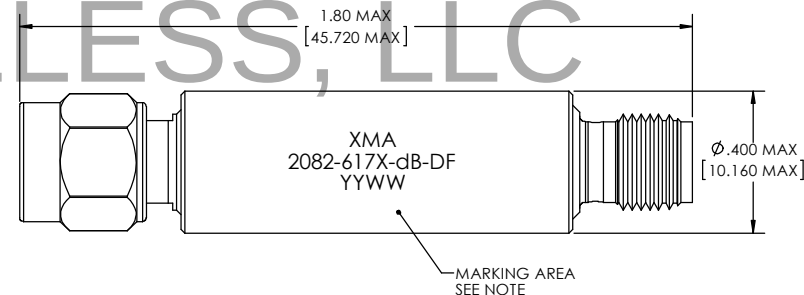
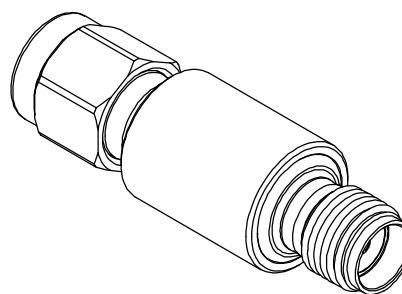
DIELECTRIC \_\_\_\_\_ TEFLON.

MATERIALS &amp; FINISHES TYPICALLY PER MIL-PRF-39012

## MARKING

PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, AND READABLE.  
REPLACE "X-dB" WITH PART NUMBER SPECIFIED ON WORK ORDER.  
YYWW EQUALS DATE CODE.

| REVISIONS |                       |        |         |          |
|-----------|-----------------------|--------|---------|----------|
| REV       | DESCRIPTION           | ECO #  | DATE    | APPROVED |
| -         | INITIAL RELEASE       | 13-213 | 9/19/13 | T KUHN   |
| A         | UPDATED;ADDED MARKING | 15-224 | 7/16/15 | T KUHN   |
|           |                       |        |         |          |

**0 THRU 30 dB****40, 50, & 60 dB**

| PLUG JACK       | dB VALUE | PLUG JACK       | dB VALUE |
|-----------------|----------|-----------------|----------|
| 2082-6171-00-DF | 0.0      | 2082-6173-10-DF | 10.0     |
| 2082-6177-00-DF | 0.5      | 2082-6179-10-DF | 10.5     |
| 2082-6171-01-DF | 1.0      | 2082-6174-11-DF | 11.0     |
| 2082-6177-01-DF | 1.5      | 2082-6174-12-DF | 12.0     |
| 2082-6171-02-DF | 2.0      | 2082-6174-13-DF | 13.0     |
| 2082-6177-02-DF | 2.5      | 2082-6174-14-DF | 14.0     |
| 2082-6171-03-DF | 3.0      | 2082-6174-15-DF | 15.0     |
| 2082-6177-03-DF | 3.5      | 2082-6174-16-DF | 16.0     |
| 2082-6172-04-DF | 4.0      | 2082-6174-17-DF | 17.0     |
| 2082-6178-04-DF | 4.5      | 2082-6174-18-DF | 18.0     |
| 2082-6172-05-DF | 5.0      | 2082-6174-19-DF | 19.0     |
| 2082-6178-05-DF | 5.5      | 2082-6174-20-DF | 20.0     |
| 2082-6172-06-DF | 6.0      | 2082-6175-30-DF | 30.0     |
| 2082-6178-06-DF | 6.5      | 2082-6176-40-DF | 40.0     |
| 2082-6173-07-DF | 7.0      | 2082-6176-50-DF | 50.0     |
| 2082-6179-07-DF | 7.5      | 2082-6176-60-DF | 60.0     |
| 2082-6173-08-DF | 8.0      |                 |          |
| 2082-6179-08-DF | 8.5      |                 |          |
| 2082-6173-09-DF | 9.0      |                 |          |
| 2082-6179-09-DF | 9.5      |                 |          |

| QTY. | PART NUMBER         | DESCRIPTION                                        | ITEM NO. |
|------|---------------------|----------------------------------------------------|----------|
| X    | 2082-617X-dB-DF     | ATTENUATOR, SMA-m/f, DC-6 GHz, 2W                  |          |
| 1    | TA-2082-619X-dBU-DF | ASSY. ATTENUATOR, SMA-m/f, DC-18 GHz, 2W, UNMARKED | 1        |

|                                                                                                                                  |    |                                                        |  |
|----------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------|--|
| DRAWING PRACTICES PER ANSI-Y-14.5<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES AND<br>APPLY BEFORE/AFTER PROCESSING |    | TOLERANCES IN:<br>DECIMALS INCH (MM)                   |  |
| SURFACE FINISH                                                                                                                   | 63 | .X" .05" [1.27]                                        |  |
| ROUGHNESS                                                                                                                        |    | .XX" .03" [.76]                                        |  |
| FINISH                                                                                                                           |    | .XXX" .010" [.25]                                      |  |
| SEE NOTES                                                                                                                        |    | ANGLES ±0°30'                                          |  |
| MATERIAL: SEE NOTES                                                                                                              |    | REMOVE ALL BURRS/SHARP W/                              |  |
| NOTE: THIS DRAWING INCORPORATES THIRD ANGLE PROJECTION.                                                                          |    | BREAK / R OF .003" TO .0005"                           |  |
| INTERPRET LAW ANSI Y14.5-1982                                                                                                    |    | UNLESS OTHERWISE NOTED<br>DIAS CONCENTRIC <.003 T.I.R. |  |
|                                                                                                                                  |    | DO NOT SCALE PRINT                                     |  |

|           |        |
|-----------|--------|
| DRAWN     | DATE   |
| McCORMICK | 9/9/13 |
| CHECKED   | DATE   |
| McCORMICK | 9/9/13 |
| ENG APPR. | DATE   |
| T.KUHN    | 9/9/13 |



Phone: 603-222-2256 Fax: 603-222-2259  
150 Dow Street, Manchester, NH 03103

ATTENUATOR, SMA-m/f, DC-6 GHz, 2W

| SIZE  | CAGE CODE         | DRAWING NUMBER  | REV |
|-------|-------------------|-----------------|-----|
| C     | 3HT76             | 2082-617X-dB-DF | A   |
| SCALE | PLATED AREA 50 IN | SHEET 1 OF 1    |     |

This unit will use raw materials that are in accordance with DFAR Clause 252.225-7014, "Preference For Domestic Specialty Metals, Alt. 1." Metals must have been melted in the United States, its outlying areas, or a qualifying country listed in DFARS 225.872-1.