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## SPECIFICATIONS

## ELECTRICAL

FREQUENCY RANGE \_\_\_\_\_ DC - 6GHz, 12.4GHz & 18GHz

AVAILABLE dB VALUES \_\_\_\_\_ 3, 6, 10 - 40 dB (IN 10 dB INCREMENTS)

ATTENUATION ACCURACY \_\_\_\_\_ DC-6GHz 6-12.4GHz 12.4-18GHz  
3 & 6 dB \_\_\_\_\_ ±0.75 dB ±0.75 dB ±0.75 dB  
10 & 20 dB \_\_\_\_\_ ±0.75 dB ±0.75 dB ±1.00 dB  
30 dB \_\_\_\_\_ ±0.75 dB ±1.00 dB ±1.25 dB  
40 dB \_\_\_\_\_ ±1.00 dB ±1.25 dB ±1.50 dB

VSWR \_\_\_\_\_  
DC - 6 GHz \_\_\_\_\_ 1.25:1 MAX  
6 - 12.4 GHz \_\_\_\_\_ 1.35:1 MAX  
12.4 - 18 GHz \_\_\_\_\_ 1.45:1 MAX

INPUT POWER \_\_\_\_\_ 50 WATTS AVG. @ 25°C  
DERATED LINEARLY TO 10 WATTS @ 125°C

PEAK POWER \_\_\_\_\_ 500 WATTS  
(5uSec PULSE, .05% DUTY CYCLE)

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

OPERATING TEMP RANGE \_\_\_\_\_ -65°C TO +125°C

## MECHANICAL

CONNECTORS \_\_\_\_\_ PASSIVATED STAINLESS STEEL

CONDUCTORS \_\_\_\_\_ GOLD PLATED BERYLLIUM  
COPPER

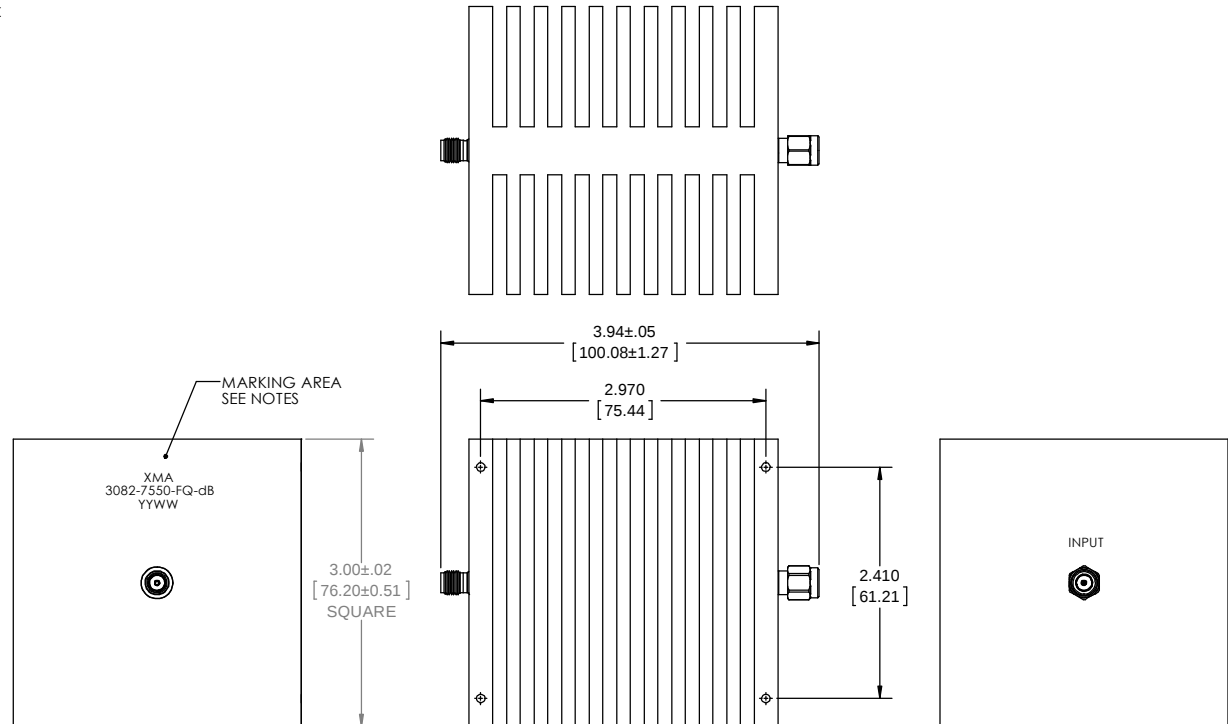
HOUSING \_\_\_\_\_ BLACK ANODIZED  
ALUMINUM

NOTES: UNIT IS UNIDIRECTIONAL, THE INPUT CONNECTOR WILL BE  
MARKED ACCORDINGLY. THE OUTPUT PORT HANDLES 5 WATTS MAX  
POWER.

## MARKING

PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
MARKING TO BE AS LARGE AS POSSIBLE BE, CLEAR, READABLE.  
REPLACE "dB" WITH THE TWO DIGIT dB VALUE SPECIFIED ON WORK  
ORDER.  
REPLACE "FQ" WITH THE TWO DIGIT FREQUENCY VALUE SPECIFIED  
ON  
WORK ORDER.  
YYWW = DATE CODE.

| REVISIONS |                               |        |         |          |
|-----------|-------------------------------|--------|---------|----------|
| REV       | DESCRIPTION                   | ECO #  | DATE    | APPROVED |
| B         | ADDED ORDING INFO             |        | 8/5/09  | T.KUHN   |
| C         | REMOVED 50-100 dB, NEW FORMAT | 15-034 | 2/13/15 | T.KUHN   |
|           |                               |        |         |          |
|           |                               |        |         |          |



| QTY. | PART NUMBER         | DESCRIPTION                                            | ITEM NO. |
|------|---------------------|--------------------------------------------------------|----------|
| X    | 2082-7550-FQ-dB     | ATTENUATOR, SMA-m/f, DC-18GHz, 50W                     |          |
| 1    | TA-2082-7550-FQ-dBU | ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18GHz, 50W, UNMARKED | 1        |

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

|                     |                  |
|---------------------|------------------|
| DRAWN<br>M.TURNER   | DATE<br>7/29/09  |
| CHECKED             | DATE             |
| ENG APPR.<br>T.KUHN | DATE<br>11/07/08 |

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

| ATTENUATOR, SMA-m/f, DC-18GHz 50W |                   |                 |     |
|-----------------------------------|-------------------|-----------------|-----|
| SIZE                              | CAGE CODE         | DRAWING NUMBER  | REV |
| C                                 | 3HT76             | 2082-7550-FQ-dB | C   |
| SCALE                             | PLATED AREA 50 IN | SHEET 1 of 1    |     |

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TEMPLATE REV A