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## SPECIFICATIONS

ELECTRICAL  
FREQUENCY RANGE\_DC- 18GHz

## ATTENUATION ACCURACY

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| 0.25 dB                               | + .030/- .025 dB (2082-6418-XX25) |
| 0 - 6 dB (and Half dB Steps)          | ±0.30 dB                          |
| 7 - 20 dB (and Half dB Steps to 11.5) | ±0.50 dB                          |
| 30 dB                                 | ±0.75 dB                          |

## VSWR

|               |            |
|---------------|------------|
| DC - 6 GHz    | 1.15:1 MAX |
| 6 - 12.4 GHz  | 1.25:1 MAX |
| 12.4 - 18 GHz | 1.35:1 MAX |

## INPUT POWER

2 WATTS AVG. @ 25°C  
DERATES LINEARLY TO 10% @ 125°C FROM 25°C

## PEAK POWER

500 WATTS  
(5 µSec PULSE WIDTH, .05% DUTY CYCLE)

## IMPEDANCE

50 OHMS

## OPERATING TEMP RANGE

-54°C TO +125°C

CONFORMANCE TESTING IS 100% ATTENUATION AND V.S.W.R.  
ACROSS SWEEPED FREQUENCY RANGE AT 20-25°C

## MECHANICAL

## CONNECTOR BODIES

PASSIVATED STAINLESS STEEL PER  
MIL-PRF-39012/MIL-DTL-3933

## CENTER CONDUCTORS

GOLD PLATED BERYLLIUM COPPER  
(C17200 OR C17300 IAW ASTM B196)  
per MIL-PRF-39012/MIL-DTL-3933

## INSULATORS

PTFE (TEFLON) IAW ASTM-D1710

## RESISTIVE ELEMENT

THIN FILM HYBRID ON 99.6% ALUMINA  
SUBSTRATE

NOT A HERMETIC SEALED UNIT

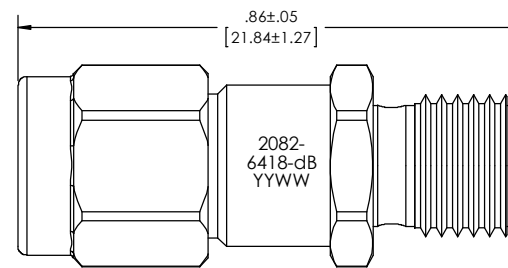
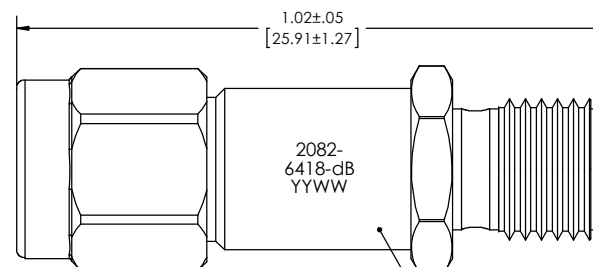
RECOMMENDED CONNECTION TORQUE IS 7-8 in./Lbs. (0.8 to 0.9 Nm)

RoHS COMPLIANT DEVICE

## MARKING

PART LOOKS LIKE PRODUCT IMAGE ABOVE.  
PART MARKING ORIENTATION AND FORMAT AS SHOWN.  
REPLACE dB WITH APPROPRIATE TWO DIGIT dB VALUE.  
MARKING TO BE AS LARGE AS POSSIBLE, CLEAR, AND READABLE.  
YYWW EQUALS DATE CODE.

| REVISIONS |                                   |        |          |          |
|-----------|-----------------------------------|--------|----------|----------|
| REV       | DESCRIPTION                       | ECO #  | DATE     | APPROVED |
| C         | CREATED SEPARATE 2082-6418-dB DWG | 13-269 | 11/04/13 | T.KUHN   |
| D         | UPDATED ATTENUATION ACCURACY      | 14-208 | 5/20/14  | T.KUHN   |
| E         | UPDATED FORMAT;ADDED MARKING      | 15-139 | 5/18/15  | T.KUHN   |

**00 THRU 12 dB****13 THRU 30 dB**

MARKING AREA

| QTY. | PART NUMBER       | DESCRIPTION                                          | ITEM NO. |
|------|-------------------|------------------------------------------------------|----------|
|      | 2082-6418-dB      | ATTENUATOR, SMA-m/f, DC-18GHz, 2W                    |          |
| 1    | TA-2082-6400-dBXU | ASSEMBLY, ATTENUATOR, SMA-m/f, DC-18GHz, 2W UNMARKED | 1        |

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

|                     |                  |
|---------------------|------------------|
| DRAWN<br>V.SHELBY   | DATE<br>11/04/13 |
| CHECKED<br>T.KUHN   | DATE<br>11/04/13 |
| ENG APPR.<br>T.KUHN | DATE<br>11/04/13 |

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| ATTENUATOR, SMA-m/f, DC-18GHz, 2W |                      |                |     |
|-----------------------------------|----------------------|----------------|-----|
| SIZE                              | CAGE CODE            | DRAWING NUMBER | REV |
| C                                 | 3HT76                | 2082-6418-dB   | E   |
| SCALE                             | PLATED<br>AREA 50 IN | SHEET 1 OF 1   |     |