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PRODUCTION
RELEASE

NOTE:
THIS DRAWING INCORPORATES
THIRD ANGLE PROJECTION.
INTERPRET IAW ANSI Y14.5-1992

REVISIONS

| REV | DESCRIPTION | APPROVED |
|-----|----------------------------------|------------------------|
| D | MOVED 1/2 dB STEPS TO -6141-XDB- | 05/25/2009 D. Saunders |

SPECIFICATIONS

ELECTRICAL

FREQUENCY RANGE _____ DC- 18GHz

ATTENUATION ACCURACY ACROSS FREQUENCY RANGE

| | |
|------------|----------|
| 0 - 6 dB | ±0.75 dB |
| 6 - 10 dB | ±1.25 dB |
| 11 - 20 dB | ±1.50 dB |
| 30 dB | ±2.00 dB |

VSWR

| | |
|---------------|------------|
| DC - 6 GHz | 1.20:1 MAX |
| 6 - 12.4 GHz | 1.40:1 MAX |
| 12.4 - 18 GHz | 1.60:1 MAX |

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

PEAK POWER _____ 250 WATTS
(5 µSec PULSE WIDTH, 0.05% DUTY CYCLE)

IMPEDANCE _____ 50 OHMS

Operating / Storage Temp. Range _____ -65°C TO +125°C

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

PART ORDERING INFORMATION:

SMA MALE TO FEMALE EQUIVALENT TO MIL-DTL-3933/25

Order From Chart at Right. Availability varies - all dBs may not be available at a given time.

"-DB": SIGNIFIES NOMINAL DB VALUE OF UNIT IN 0.1 dB INCREMENTS

| | |
|-----------------------|-----------------------|
| -03 = 3.0 dB Nominal | -21 = 21.0 dB |
| -10 = 10.0 dB Nominal | -30 = 30.0 dB Nominal |

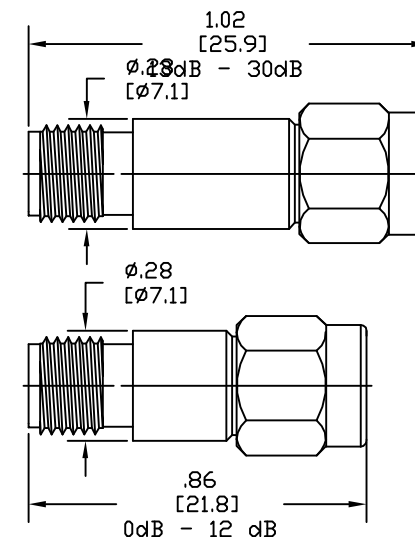
MECHANICAL (DESIGN ALIGNS WITH MIL-DTL-3933)

CONNECTOR BODIES _____ PASSIVATED STAINLESS STEEL
CENTER CONDUCTORS _____ GOLD PLATED BERYLLIUM COPPER
INSULATORS _____ PTFE (TEFLON) IAW ASTM-D1710
RESISTIVE ELEMENT _____ THIN FILM ON CERAMIC RESISTIVE CIRCUIT
NOT A HERMETIC SEALED UNIT
RECOMMENDED CONNECTION TORQUE IS 7-8 in./Lbs. (0.8 to 0.9 Nm)

RoHS DEVICE

RF CONNECTORS COMPLY TO MIL-STD-348 AND MIL-PRF-39012

ENVIRONMENTAL PERFORMANCE COMPLIES TO MIL-DTL-3933/25



| dB | ORDER MODEL # | dB | ORDER MODEL # |
|----|---------------|----|---------------|
| 1 | 2082-6141-01 | 11 | 2082-6143-11 |
| 2 | 2082-6141-02 | 12 | 2082-6143-12 |
| 3 | 2082-6141-03 | 13 | 2082-6143-13 |
| 4 | 2082-6142-04 | 14 | 2082-6143-14 |
| 5 | 2082-6142-05 | 15 | 2082-6143-15 |
| 6 | 2082-6142-06 | 16 | 2082-6143-16 |
| 7 | 2082-6143-07 | 17 | 2082-6143-17 |
| 8 | 2082-6143-08 | 18 | 2082-6143-18 |
| 9 | 2082-6143-09 | 19 | 2082-6143-19 |
| 10 | 2082-6143-10 | 20 | 2082-6143-20 |
| | | 30 | 2082-6144-30 |

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DRAWING PRACTICES PER ANSI-Y14.5
MIL-STD-883C & 1000

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND
APPLY BEFORE/AFTER PROCESSING

SURFACE
ROUGHNESS

FINISH

MATERIAL

| DECIMALS | INCH | MM |
|----------|-------|--------|
| .x" | .05" | [1.3] |
| .xx" | .03" | [.76] |
| .xxx" | .015" | [.40] |

UNLESS OTHERWISE NOTED
DIAS CONCENTRIC <.003 T.I.R.

SEE NOTES

DRAWN _____ DATE _____

CHECKED _____ DATE _____

ENG _____ DATE _____

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| SIZE | CAGE CODE | DWG NO. |
|--------------|-------------------------------|--------------|
| C | 3HT76 | 2082-614X-DB |
| SCALE 4:1 | PLATING AREA SQUARE INCHES | XXX |
| SHEET 1 OF 1 | | |

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