

# SPECIFICATIONS

PRODUCTION  
RELEASE

NOTES  
THIS DRAWING INCORPORATES  
THIRD ANGLE PROJECTION  
INTERPRET IN ACCORDANCE WITH  
ASME Y14.5-2009

## REVISIONS

| REV | DESCRIPTION                       | DATE    | APPROVED |
|-----|-----------------------------------|---------|----------|
| B   | ADDED STORAGE TEMP - POWER LEVELS | 3/26/10 | TAK      |

### 1. MATERIAL:

HOUSING: STAINLESS STEEL IAW ASTM-A484 & ASTM-A582, ALLOY 303, COND A  
CONTACT: BERYLLIUM COPPER  
DIELECTRIC - HIGH TEMPERATURE PLASTIC BEAD

### 2. FINISH:

HOUSING - PASSIVATED STAINLESS STEEL  
CONDUCTOR - GOLD PLATED IAW MIL-PRF-39012

### 3. ELECTRICALS:

FREQUENCY RANGE \_\_\_\_\_ DC - 50 GHz

STANDARD dB VALUES\_\_ 3, 6, 10, 20 & 30 dB

ATTENUATION ACCURACY\_ DC - 26.5 GHz 26.5 - 40 GHz 40 - 50 GHz

3, 6 & 10 dB ±0.5 dB ±1.0 dB ±1.5 dB

20 & 30 dB ±0.75 dB ±1.25 dB ±2.0 dB

VSWR (MAX) \_\_\_\_\_ DC-26.5 GHz 26.5 - 40 GHz 40 - 50 GHz

<1.35 <1.60 <1.75

POWER (AVG. MAX.) \_\_\_\_\_ @25°C SEE TABLE

DERATES LINEARLY TO 10% AT +100°C

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

OPERATING/STORAGE TEMPERATURE RANGE -55 TO +100°C

### PART ORDERING INFORMATION

8582 - 6X50 - DB - OTHER

DB: SIGNIFIES NOMINAL DB VALUE OF UNIT

03 = 3 DB

06 = 6 DB

30 = 30DB

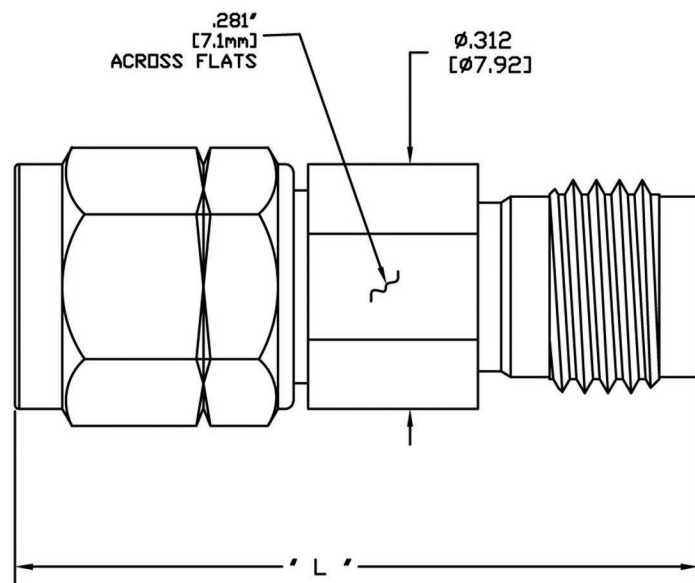
10 = 10 DB

20 = 20 DB

| HA50A | POWER LEVEL |
|-------|-------------|
| X = 0 | 0.5 WATT    |
| X = 1 | 1 WATT      |

| DB VALUE | LENGTH "L" |
|----------|------------|
| 0-20     | .871±.030  |
| 30       | .911±.030  |

FOR "-OTHER" DESIGNATIONS CONTACT FACTORY



DRAWING PRACTICES PER ASME-Y14.5  
REL-2009-001 & 2009

UNLESS OTHERWISE SPECIFIED  
TOLERANCES IN  
DECIMALS INCHES  
X" .05" [1.3]  
XX" .03" [.79]  
XXX" .015 [.38]  
ANGLES

FINISH  
SEE NOTES

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

DRAWN D. SAUNDERS 01/01/2007

CHECKED DATE  
D. SAUNDERS 01/01/2007

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Phone: 888-496-3242  
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TITLE  
50 GHz, 2.4mm M-F ATTENUATOR  
1 WATT INPUT POWER

SIZE C CAGE CODE 0T8L4 PART NO. HA50A  
SCALE 8:1 PLATING AREA SQUARE INCHES XXX SHEET 1 OF 1