NOTE:
1. CHECK THE ORIENTATION OF EACH MAGNET IN THE BASE PLATE ASSEMBLY (ITEM 2) TO ASSURE THAT IT MATCH WITH THE MAGNETS OF ENCLOSURE ASSEMBLY (ITEM 1) SO THAT THEY ATTRACT EACH OTHER.
2. CHECK THE SERIAL NUMBERS OF THE BASE PLATE ASSEMBLY (ITEM 2) AND THE ENCLOSURE ASSEMBLY (ITEM 1) TO ASSURE THAT THEY MATCH.
3. ATTACHED THE BAGGED BASE PLATE SHORT CLIPS TO THE UNIVERSAL PUCK ASSEMBLY FOR SHIPPING.
NOTE:
1. HOUSING (ITEM 1) SHALL BE HARD ANODIZED BEFORE
SENDING FOR LASER ENGRAVING. AFTER LASER
ENGRAVING, ASSEMBLE HOUSING WITH OTHER PARTS
(ITEMS 2-5).
NOTE:
1. MATERIAL: ALUMINUM 7075-T651.
2. SOME HIDDEN LINES LEFT OUT FOR CLARITY.
3. INTERNAL CORNERS: R 0.13 MAX.
4. BREAK EXPOSED SHARP EDGES: 0.13 MIN, 0.26 MAX.
5. PART IS TO BE HARD ANODIZED (0.05 THICK). MASK TAPPED HOLE AND CENTER CUT-OUT AS SHOWN IN DETAIL D BEFORE ANODIZING.
TEXT FONT: SINGLE LINE SANS SERIF
TEXT SIZE 2.2-2.5 mm

TEXT FONT: HEAVY WEIGHT SANS SERIF
TEXT SIZE: 4.0-4.5 mm

UNIVERSAL V1-PUCK
ENCLOSURE
HOUSING
LASER ENGRAVING

SCALE: 2:1

DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM. TOLERANCES:
BREAK EDGES ±.10
INTERNAL CORNERS R.400 MAX

ANGLES: ±3°

FRACTIONS: ±.005
DECIMALS: ±.010

5-DIGIT SERIAL NUMBER

CENTER OF ENGRAVING

LAB IDENTIFIER
NOTE:
1. MATERIAL: 416 STAINLESS STEEL.
2. INTERNAL CORNERS: R 0.13 MAX.
3. BREAK EXPOSED SHARP EDGES: 0.13 MIN, 0.26 MAX.

<table>
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<th>DESCRIPTION</th>
<th>DWN CHKAPVD</th>
<th>DATE</th>
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<tr>
<td>UNIVERSAL V1-PUCK ENCLOSURE DISK PLATE</td>
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<th>UNLESS OTHERWISE SPECIFIED</th>
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<td>DIMENSIONS ARE IN MM. TOLERANCES:</td>
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<tr>
<td>BREAK EDGES 0.13-4.00</td>
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<tr>
<td>INTERNAL CORNERS R 0.400 MAX</td>
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<th>FRACTIONS</th>
<th>DEC</th>
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<td>±0.10</td>
<td>±0.05</td>
<td>±0.050</td>
<td>±1.6</td>
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<th>NEXT ASSEMBLIES:</th>
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<tr>
<td>Ø 9.50</td>
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</tr>
<tr>
<td>Ø 3.000 X 82°</td>
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</tr>
<tr>
<td>Ø 1.60 ±0.10</td>
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<th>DRAWING NUMBER</th>
<th>REVISION NUMBER</th>
<th>CAD FILE NAME</th>
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<tr>
<td>B</td>
<td>0</td>
<td>UNIVERSAL V1-PUCK ENCLOSURE DISK PLATE</td>
</tr>
</tbody>
</table>
NOTE:
1. COVER (ITEM 3) SHALL BE LASER ENGRAVED BEFORE ASSEMBLING.
2. RING MAGNETS (ITEM 2) SHALL BE INSTALLED IN PROPER ORIENTATION SO THAT THEY
   WILL ATTRACT THE MAGNETS OF THE ENCLOSURE HOUSING ASSEMBLY.
3. INSERT DOWEL PIN INTO THESE TWO HOLES TO ALIGN COVER (ITEM 3) WITH HOUSING
   (ITEM 1) DURING ASSEMBLING.
4. CLIPS (ITEM 6) OR SHORT CLIPS (ITEM 8) SHALL NOT PROTRUDE THE HOUSING (ITEM 1).
5. CLIPS (ITEM 6) SHALL BE FASTENED TO HOUSING (ITEM 1) BY SCREWS (ITEM 7).
   SHORT CLIPS (ITEM 8) SHALL BE BAGGED AND ATTACHED TO THE ASSEMBLY AS AN
   ALTERNATIVE OPTION.

SECTION A-A
5.1

ITEM STOCK OR PART NO TITLE OR DESCRIPTION QTY
1 BASE PLATE HOUSING 1
2 ALL MAGNETICS, INC #NR8143N-50 RING MAGNET 8.18MM OD X 4.50MM ID X 3.50MM T, 50NR, NDFEB, NI-PLATED 16
3 BASE PLATE COVER 1
4 BASE PLATE PIN (TAPER) 1
5 MCMASTER-CARR #9305SA021 SCREW, PHILIPS FLAT HEAD, #2-56 x 3/8, SST, 100 DEGREE 1
6 BASE PLATE CLIP 2
7 BASE PLATE SHORT CLIP 2
8* BASE PLATE SHORT CLIP 2

SCALE: 2:1
DO NOT SCALE DRAWING CAD FILE NAME: UNIVERSAL V1-PUCK BASE PLATE ASSEMBLY TAPER PIN
NOTE:
1. MATERIAL: ALUMINUM 7075-T651.
2. SOME HIDDEN LINES LEFT OUT FOR CLARITY.
3. INTERNAL CORNERS: R 0.13 MAX.
4. BREAK EXPOSED SHARP EDGES: 0.13 MIN, 0.26 MAX.
5. PART SHALL BE HARD ANODIZED (0.05 THICK). MASK ALL TAPPED HOLES AND CENTER CUT-OUT SHOWN IN DETAIL C BEFORE ANODIZING.

NOTE:
1. MATERIAL: ALUMINUM 7075-T651.
2. SOME HIDDEN LINES LEFT OUT FOR CLARITY.
3. INTERNAL CORNERS: R 0.13 MAX.
4. BREAK EXPOSED SHARP EDGES: 0.13 MIN, 0.26 MAX.
5. PART SHALL BE HARD ANODIZED (0.05 THICK). MASK ALL TAPPED HOLES AND CENTER CUT-OUT SHOWN IN DETAIL C BEFORE ANODIZING.
MASK THIS CUT OUT BEFORE ANODIZING (SEE NOTE 5)

SECTION D-D
4:1

SECTION E-E (2 PLACES)
4:1

DETAIL C
4:1

DETAIL B (10 PLACES)
4:1

DETAIL A (2 PLACES)
4:1

SCALE: 2:1
DO NOT SCALE DRAWING
CAD FILE NAME:

UNIVERSAL V1-PUCK
BASE PLATE
MAGNET HOUSING (DETAIL)
P 2 OF 3
NOTE:
1. MATERIAL: .031" +/- .001" THICK 303 OR 304 STAINLESS STEEL SHIM STOCK.
2. INTERNAL CORNERS: R 0.13 MAX.
3. BREAK EXPOSED SHARP EDGES: 0.13 MIN, 0.26 MAX.

**DIMENSIONS AND TOLERANCES:**
- Diameters in **mm**
- Tolerances: ±0.050
- Internal Corners R 0.13 MAX.
- Break Edges: 0.13 MIN, 0.26 MAX.

**NOTES:**
1. MATERIAL: .031" +/- .001" THICK 303 OR 304 STAINLESS STEEL SHIM STOCK.
2. INTERNAL CORNERS: R 0.13 MAX.
3. BREAK EXPOSED SHARP EDGES: 0.13 MIN, 0.26 MAX.

**SCALE:** 2:1

**DO NOT SCALE DRAWING**

**CAD FILE NAME:** UNIVERSAL V1-PUCK BASE PLATE MAGNET COVER
NOTE:
ENGRAVE ON THE CT'SINK SIDE

TEXT FONT: HEAVY WEIGHT SANS SERIF
TEXT SIZE: 4.0-4.5mm

LAB IDENTIFIER

Ø 37.50 CENTER OF ENGRAVING

5-DIGIT SERIAL NUMBER

---
SCALE: 2:1
---

DO NOT SCALE DRAWING

CAD FILE NAME:

UNIVERSAL V1-PUCK
BASE PLATE
MAGNET COVER
LASER ENGRAVING

---
DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994.
---
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MM. TOLERANCES:
BREAK EDGES .135-400
INTERNAL CORNERS R .400 MAX
---
FRACTIONS ± .
XXX .050
---
ANGLES ± 0.25 
---
NEXT ASSEMBLIES:
---

---

5-DIGIT SERIAL NUMBER

\[ \pm \]

ENGR: ___
DATE: ___

---

APPROVALS:

---

STANFORD SYNCHROTRON RADIATION LABORATORY
U.S. DEPARTMENT OF ENERGY
SLAC, STANFORD UNIVERSITY
STANFORD, CALIFORNIA

---

LAB IDENTIFIER

CENTER OF ENGRAVING
NOTE: UNLESS OTHERWISE SPECIFIED
1. MATERIAL: BERG STOCK # S1-15, STAINLESS GROUND STOCK, DIAMETER .2500" +.0000"/-0002", 303 STAINLESS STEEL.

SECTION A-A

UNIVERSAL V1-PUCK
BASE PLATE
ALIGNMENT PIN (TAPER)

SCALE: 4:1

DIMENSIONING AND TOLERANCING IS IN ACCORDANCE WITH ASME Y14.5M-1994.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM. TOLERANCES:
BREAK EDGES .125-400
INTERNAL CORNERS R.400 MAX

FRACTIONS ± ...
DEC XX ± 0.10
XXX ± 0.050

NOTE: UNLESS OTHERWISE SPECIFIED
4.600 +0.000 -0.013
7.00
31.00
6.35

REFERENCES:

NEXT ASSEMBLIES:

#2-56 UNC-2B X 6.35
Ø 0.050
NOTE: UNLESS OTHERWISE SPECIFIED
1. MATERIAL: .010" THICK SPRING STEELS.
2. DIMENSION TOLERANCE OF X.X IS +0.2/-0.2.
NOTE: UNLESS OTHERWISE SPECIFIED
1. MATERIAL: .010" THICK SPRING STEELS.
2. DIMENSION TOLERANCE OF X.X IS +0.2/-0.2.