This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-28754.

FIGURE 1. Dimensions and configurations.
FIGURE 1. Dimensions and configurations – continued.
## Notes:

1. Dimensions are in inches.
2. Metric equivalents are given for information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerances are ± .005 (.13 mm) inch for three place decimals, ± .01 (.3 mm) inch for two place decimals and ± 2° for angles.
4. Unless otherwise specified, all corner radii shall be .02 (.51 mm) inch rad max.
5. This surface and the .122 dimension shall be flush to .005 maximum step.
6. Top of T surfaces.
7. Dimensional limits apply after plating.
8. Frame shall be marked in approximate location shown with part number, manufacturer’s number and date code with contrasting ink in characters .06 (1.5 mm) inch high.

### Requirements

Dimensions and configuration: See Figure 1.

**Materials:** For M28754/67-01, aluminum alloy 6101, ASTM B317/B317M, T6 extrusion.
   For M28754/67-02, copper C11000, H01 temper, per ASTM B152/B152M.
   For M28754/67-03, copper-invar-copper (20-60-20% by thickness).

**Finish:** For M28754/67-01, anodic coating, MIL-A-8625, Type II, Class 2, black.

For M28754/67-02 and -03, electrolysis nickel in accordance with AMS2404, 5 percent phosphorous minimum, Class 1, .0015 ± .0005 inch thick, MIL-C-5541, Class 1A, yellow. Within 4 hours after plating, oven bake 275 ± 25°F, 1 hour, for hydrogen relief and adhesion.

**Examination:** One frame from each plating lot shall be exposed to salt fog per MIL-STD-810, Method 509, Procedure 1, 48 hours, and one frame shall be exposed to oven bake at 375 ± 10°F, 60-90 minutes. Examine each frame, using 6 to 10 power magnification, for loose or blistered coating. Examination results shall be delivered with each order. The examined frames shall be retained by the supplier for a period of 6 months.

**Stress relief:** For M28754/67-02 and -03, frames shall receive the following bake cycle prior to plating and after all fabrication steps, 375 ± 10°F for 90 ± 10 minutes.

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**Figure 1. Dimensions and configurations – continued.**

<table>
<thead>
<tr>
<th>Inches</th>
<th>mm</th>
<th>Inches</th>
<th>mm</th>
<th>Inches</th>
<th>mm</th>
<th>Inches</th>
<th>mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>.001</td>
<td>.03</td>
<td>.030</td>
<td>.76</td>
<td>.128</td>
<td>3.25</td>
<td>4.600</td>
<td>116.84</td>
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<tr>
<td>.002</td>
<td>.05</td>
<td>.050</td>
<td>1.27</td>
<td>.150</td>
<td>3.81</td>
<td>4.860</td>
<td>123.45</td>
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<tr>
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<td>.08</td>
<td>.062</td>
<td>1.58</td>
<td>.163</td>
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<td>4.890</td>
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<tr>
<td>.005</td>
<td>.13</td>
<td>.095</td>
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<td>.275</td>
<td>6.99</td>
<td>5.150</td>
<td>130.81</td>
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<tr>
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<td>.100</td>
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<td>1.340</td>
<td>34.04</td>
<td>5.340</td>
<td>135.64</td>
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<tr>
<td>.015</td>
<td>.38</td>
<td>.122</td>
<td>3.10</td>
<td>1.490</td>
<td>37.85</td>
<td>5.740</td>
<td>145.80</td>
</tr>
</tbody>
</table>
Part or Identifying Number (PIN): M28754/67- (Dash Number from Table I).

TABLE I.

<table>
<thead>
<tr>
<th>Dash number</th>
<th>Material</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Aluminum Alloy</td>
<td>Anodize</td>
</tr>
<tr>
<td>02</td>
<td>Copper</td>
<td>Nickel</td>
</tr>
<tr>
<td>03</td>
<td>Copper-Invar</td>
<td>Nickel</td>
</tr>
</tbody>
</table>

First article testing: Perform the applicable tests as specified in MIL-DTL-28754 and the appendix thereto.

Number of units to be inspected: Twelve (12) of each dash number to be qualified shall be inspected.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the previous issue.

Referenced documents. In addition to MIL-DTL-28754, this document references the following:

- MIL-A-8625
- MIL-C-5541
- MIL-STD-810
- AMS2404
- ASTM B317/B317M
- ASTM B152/B152M

CONCLUDING MATERIAL

Custodians: Preparing activity:
Navy – AS DLA – CC
Air Force - 85 (Project 5935-2016-083)
DLA - CC

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at https://assist.dla.mil/.