Creating Solutions to Your Most Demanding Challenges

Are your electronic circuit boards suffering from excessive shock and vibration?
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A COLLABORATIVE PARTNERSHIP

Look to LORD Corporation for the solution to your demanding challenges. The need for a solution capable of isolating electronic components and other light-weight electronic equipment from shock and vibration led us to apply our aerospace isolator knowledge to address the needs of sensitive electronic systems. With our isolators, you no longer compromise between reliability, performance and durability – we offer you the solution to isolation.

The unique Micro-Mount Series are high-performance isolators small enough and soft enough to protect individual electronic components allowing isolation at the circuit board level. Micro-Mounts can be used as a stand-alone solution or to augment performance of a LORD full-system isolation solution. These small, flexible mounts are used successfully on GPS oscillators in satellites, military aircraft, downhole oil & gas equipment, and many more applications.

Made of BTR® (Broad Temperature Range) silicone bonded to stainless-steel, these mounts are ideal for applications requiring consistent performance at extreme temperatures. And, the combination of this unique, high-end silicone with stainless-steel components assures easy installation in a wide range of applications.

Our Micro-Mount isolators can be designed to meet your unique conditions:

- Individual mounts support 0.1 lb
- Standard hardware
- Easy installation; available in Nut/Nut, Post/Nut, and Post/Post configurations in many common threads (#2-56, #4-40, M3)
- Temperature rated to 350°F continuous operation (400°F peak)
Micro-Mounts Series

- Rated static load per mount: 0.1 lb (46 g)
- Maximum static load per mount: 0.2 lb (92 g)
- Maximum dynamic input at resonance and rated load: 0.02 in (0.507 mm) double amplitude
- Materials: Hex nuts – 303 stainless steel, passivated; Elastomer – LORD MEA Silicone**

**MEA Silicone is chosen from the BTR® Silicone family

NUT/NUT MICRO-MOUNT

![Image of NUT/NUT MICRO-MOUNT]

<table>
<thead>
<tr>
<th>LORD Part Number</th>
<th>Thread Count</th>
<th>LORD Part Number</th>
<th>Thread Count</th>
<th>LORD Part Number</th>
<th>Thread Count</th>
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<tbody>
<tr>
<td>J-28509-1</td>
<td>#2-56</td>
<td>J-28420-1</td>
<td>M3 x 0.5</td>
<td>J-28418-1/-3</td>
<td>M3 x 0.5</td>
</tr>
<tr>
<td>J-28421-1</td>
<td>#4-40</td>
<td>J-28419-1</td>
<td>#4-40</td>
<td></td>
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</tr>
<tr>
<td>J-28472-1</td>
<td>#2-56</td>
<td>J-28473-1</td>
<td>#2-56</td>
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</table>

RATED SHOCK LOADS*

<table>
<thead>
<tr>
<th>lbs.</th>
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<tbody>
<tr>
<td>0.20</td>
<td>125</td>
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<tr>
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</tr>
<tr>
<td>0.05</td>
<td>276</td>
</tr>
<tr>
<td>0.01</td>
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</table>

* with 0.5 millisecond pulse width
J-28420-1

POST/NUT MICRO-MOUNT

J-28421-1

POST/NUT MICRO-MOUNT

J-28472-1

POST/NUT MICRO-MOUNT
POST/POST MICRO-MOUNT

J-28418-1

J-28418-3

J-28419-1

J-28473-1
## LORD Micro-Mounts - Installation Guide

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>THREAD</th>
<th>CONFIGURATION</th>
<th>TOOL SIZE*</th>
<th>INSTALLATION TORQUE</th>
<th>MAXIMUM THREAD ENGAGEMENT NUT</th>
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</thead>
<tbody>
<tr>
<td>J-28509-1</td>
<td>#2-56</td>
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<td>3/16 in.</td>
<td>4 in-lbf</td>
<td>0.5 N-m</td>
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<tr>
<td>J-28420-1</td>
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<td>Post/Nut</td>
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<tr>
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<td>4 in-lbf</td>
<td>0.5 N-m</td>
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<tr>
<td>J-28472-1</td>
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<tr>
<td>J-28418-1</td>
<td>M3 x 0.5</td>
<td>Post/Post</td>
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<tr>
<td>J-28418-3</td>
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<td>J-28419-1</td>
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<td>J-28473-1</td>
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<td>4 in-lbf</td>
<td>0.5 N-m</td>
</tr>
</tbody>
</table>

*Tool size required to apply/react full torque

### INSTALLATION TIPS

- Recommended Installation Torque is a maximum torque; lesser torque may be appropriate depending on specific application and configuration.
- Tool size represents the open end wrench size to be used, and may vary. Select tool size that best fits mounts and provides proper torsion support during installation to prevent applying torque across elastomer section.
- Use liquid thread-locker when installing Micro-Mounts.

### INSTALLATION TECHNIQUES

During installation, be careful not to torque across the elastomer section. Rather, when installing a fastener, support the Micro-Mount with an appropriately sized open-ended wrench (Figure 1). On the post/nut and nut/nut versions, be mindful of thread engagement so that the isolator does not bottom out prior to maximum deflection (Figure 2).

### FIGURE 1

- **PROPER INSTALLATION**: Support the top nut when installing a fastener.
- **INCORRECT INSTALLATION**: Do not hold the bottom nut fixed when installing a fastener in the top nut.
LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide. Ask Us How.

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