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solutions :  
local support™

| FINGERSTOCK, GASKETS AND  
METAL GROUNDING PRODUCTS

engineered emi, antenna and thermal applications

## BERYLLIUM COPPER SOLUTIONS AND BEYOND.

Beryllium copper has remarkable stability, superior tensile strength, impressive thermal and electrical conductivity, and high shielding attenuation values. Which is why Laird Technologies® offers over 250 different configurations of beryllium copper shielding. Beyond beryllium copper, we also offer shielding and custom-engineered stampings in stainless steel, brass, phosphor bronze and other special alloys.



Large-volume requirements are readily met by our high-speed Bruderer punch presses.



Heat-treating, critical to imparting the specific mechanical qualities to the spring materials, is computer-controlled. All heat treated batches are also quality tested for hardness and specifications.



Photo-chemical machining produces extremely intricate and complex parts to precise specifications and provides a cost-effective alternative to tooling.



Large bed presses enable Laird Technologies to process a wide variety of material types and thicknesses to broaden our metals capability and offer customized solutions from shielding, grounding or non-EMI applications.



From design to totally automated assembly, Laird Technologies offers complete control of your assembled product.



Multi-slide machines offer economical production options.



Our precision plating departments support and strictly comply with environmental, health and safety standards while offering a wide variety of plating finishes.











This environment-friendly, aqueous degreasing unit for removing stamping oils cleans with a mild alkaline solution—eliminating the need for chlorinated solvents.

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As the world's leading fabricator of fingerstock, Laird Technologies has developed highly sophisticated, and often proprietary, shielding and grounding technology. Our innovations are necessary to achieve outstanding combinations of performance parameters. From a vast selection of product configurations, platings and mounting techniques, to a full range of low compression

force requirements and high transfer impedance characteristics, there is a Laird Technologies gasket or grounding product just right for the job.

**Depending upon the manufacturing process, some parts will be supplied with holes for cleaning and plating purposes. These holes will not affect the overall performance of the product.**

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## IMPORTANT SHIELDING SELECTION CONSIDERATIONS








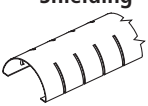











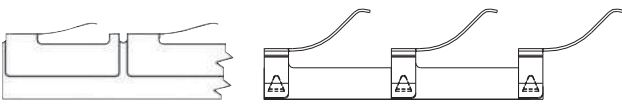

Consider these important factors in the selection of appropriate shielding products for your design:

- |   |  |  |  |
|---|--|--|--|
| <input type="checkbox"/> Operating Frequency      | <input type="checkbox"/> Commercial or Military Worldwide Compliance | <input type="checkbox"/> Fastening/Mounting Methods          | <input type="checkbox"/> Electrical Requirements     |
| <input type="checkbox"/> Materials Compatibility  | <input type="checkbox"/> Operating Environment                       | <input type="checkbox"/> Storage Environment                 | <input type="checkbox"/> Materials Thickness/Alloy   |
| <input type="checkbox"/> Corrosive Considerations | <input type="checkbox"/> Load/Forces                                 | <input type="checkbox"/> Nuclear, Biological, Chemical (NBC) | <input type="checkbox"/> Space/Weight Considerations |
|   | <input type="checkbox"/> Cost  | <input type="checkbox"/> Cycle Life                          | <input type="checkbox"/> Product Safety              |
|   | <input type="checkbox"/> Attenuation Performance                     | <input type="checkbox"/> Shielding/Grounding/Other           | <input type="checkbox"/> Recyclability               |

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All dimensions shown are in inches (millimeters) unless otherwise specified.



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All dimensions shown are in inches (millimeters) unless otherwise specified.





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All dimensions shown are in inches (millimeters) unless otherwise specified.



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All dimensions shown are in inches (millimeters) unless otherwise specified.



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All dimensions shown are in inches (millimeters) unless otherwise specified.



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All dimensions shown are in inches (millimeters) unless otherwise specified.

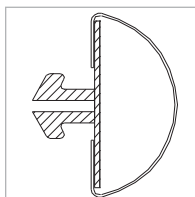
## MOUNTING METHODS



### UNIVERSAL MOUNTING

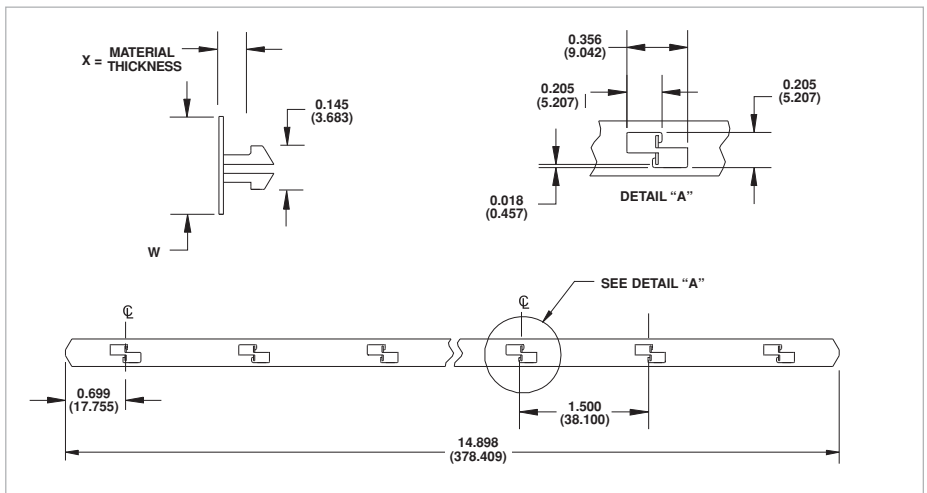
A stainless steel mounting track is available for use with our full line of gasketing materials. Its unique design offers a secure mounting option versatile enough for use with fingerstock, ElectroNit® mesh, ElectroSeal elastomers, UltraSoft® Knit and fabric-over-foam products.

| PART NUMBER  | WIDTH          |
|--------------|----------------|
| 0095-X996-00 | 0.310 (7.874)  |
| 0095-X997-00 | 0.430 (10.922) |
| 0095-X998-00 | 0.600 (15.240) |



UNIVERSAL MOUNT

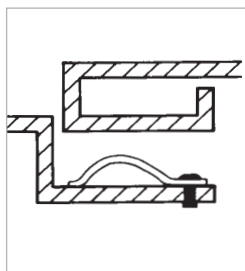
| MATERIAL THICKNESS |
|--------------------|
| A = 0.030 (0.762)  |
| B = 0.045 (1.143)  |
| C = 0.060 (1.524)  |
| D = 0.090 (2.286)  |
| E = 0.150 (3.810)  |



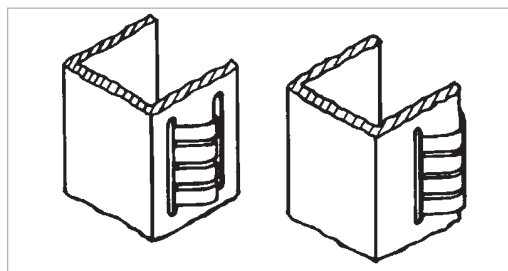
To identify proper mounting track, select width and corresponding part number from the above chart. Replace the "X" with required material thickness.



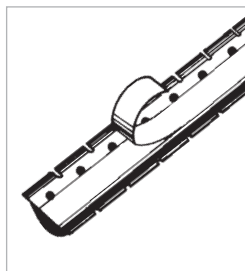
## MOUNTING METHODS



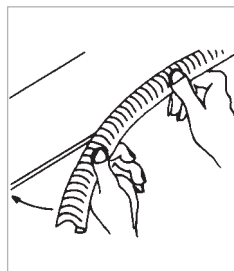
RIVET MOUNT



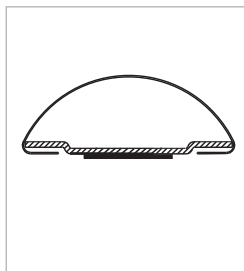
SLOT MOUNT



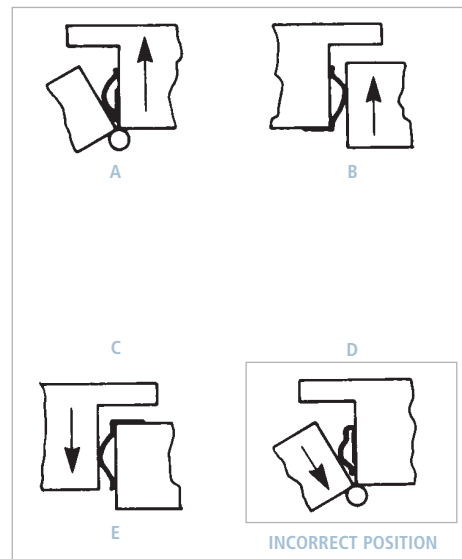
STICKY FINGERS®



CLIP-ON MOUNTING



TAPE TRACK MOUNTING



▲ Shielding gaskets may be mounted for either wiping or compression closing applications. Proper positioning of the shielding gasket must take into consideration the closing design and the configuration of the mounting surface.

Laird Technologies shielding devices may be mounted quickly and easily using any of several different methods. Each installation method is described in the text that follows. However, if you should run into a unique situation not resolved by any of these methods, give us a call. More than likely we can provide the exact answer you need.

### RIVET MOUNT

Riveting produces a tight, long-lasting installation. Either plastic or metal rivets may be used.

### SLOT MOUNT

Slot mounted parts are easily installed using slots where bi-directional movement is required. Simply install part into one slot and snap it into the second slot or over the edge of the frame.

### ADHESIVE MOUNTING

Sticky Fingers® is an instant, pressure-sensitive adhesive bonding system, ideal for all-purpose contact strips for metal cabinets and electronic enclosures, and is unaffected by temperatures from -67 to +250°F (-55 to +121°C).

Simply follow these four easy steps:

1. Remove all grease and oily residue with solvent. Smooth the mounting surface with emery cloth.
2. Peel off protective paper backing.
3. Place gasket in correct position. (See mounting methods diagrams A through E.) Press firmly to ensure a good adhesive bond. Avoid repositioning, which might impair the effectiveness of the adhesive or may bend or kink the strip.  
NOTE: On items where fingers cover the solid portion of the gasket, pressure may be applied by inserting a mandrel in the strip and pressing down. For contact strips with Magnefil® insert, simply press down on the fingers.
4. Allow 24 hours minimum curing time.

Standard parts are supplied with nonconductive tape. For rough surface applications, such as flame-sprayed surfaces, 0.010 in. (0.254 mm) thick nonconductive tape is recommended. Optional conductive tape is also available. Contact a sales department representative for additional ordering information.

### CLIP-ON MOUNTING

Clip-on gaskets hold firmly in place due to their own spring characteristics. Simply push the strips onto the edge or flange of the door or enclosure. Also available are clip-on gaskets with either "T" or "D" lances.

### TAPE TRACK MOUNTING

Stainless Steel mounting track with PSA (pressure sensitive adhesive) is available on the Symmetrical Slotted Series and Slot Mount Series.

### WELDING

Welded mounting requires simple, traditional welding techniques.

### SOLDERING

Solder mounting requires normal low temperature soldering techniques, including cleaning and fluxing of parts with common copper flux materials.



## PART NUMBER FORMAT:

### Example:

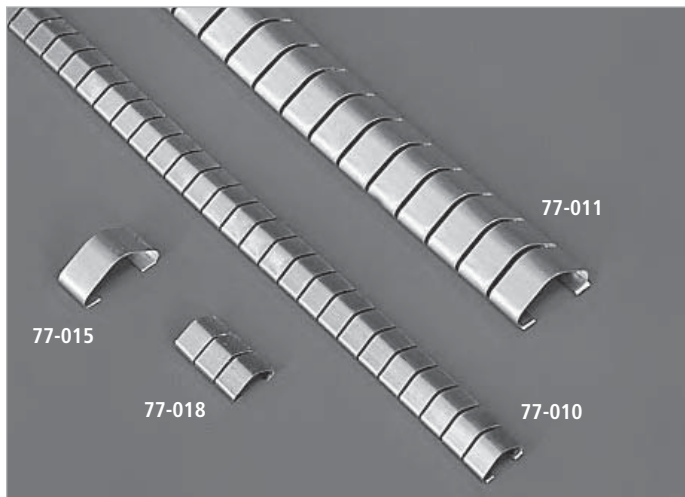
**Stock Item**                      **Unique Part No.**                      **Finish I.D.**  
0 0 9 7                      —                      0 5 2 0                      —                      0 2

- In the above example, Laird Technologies part number 0097-0520-02 is a 97-520 RFI/EMI shielding gasket with a bright finish
- When ordering UltraSoft® items, the stock item prefix will be 0098 or 0078. The above example in UltraSoft would be 0098-0520-02.
- When ordering coil, the prefix 0C should precede the stock item number; for example: 0C97, 0C98, 0C77 or 0C78
- When ordering stainless steel items, the stock item prefix will be 0095
- Standard plating finish is 0.0001 in. (0.0025 mm) min. [gold 0.00005 in. (0.0013 mm) min.] but can be varied to meet your custom needs
- Modifications to standard parts are specified by an X (following finish I.D.) for quoting only. Upon ordering, a specific part number will be assigned.
- For tape options, see Adhesive Mounting — Sticky Fingers® on page 1-10
- Use the catalog number for the unique part number and refer to the following chart for finish I.D.

## PLATING FINISHES

| REQUIRED FINISH     | FINISH                      | SPECIFICATIONS            | I.D. # |
|---------------------|-----------------------------|---------------------------|--------|
| Bright Finish       | —                           | —                         | 02     |
| Solderable Unplated | —                           | —                         | 21     |
| Gold                | Gold                        | ASTM B-488/SAE AMS 2422   | 03     |
|                     | Nickel Underplate           | QQ-N-290 / ASTM B-488     | 10     |
|                     | Gold Contips®               | ASTM B-488/SAE AMS 2422   | 13     |
|                     | Gold Contips / Gold Plate   | ASTM B-488 / SAE AMS 2422 | 14     |
| Silver              | Silver                      | ASTM B-700                | 04     |
|                     | Silver Contips              | ASTM B-700                | 11     |
|                     | Silver Contips / Plating    | ASTM B-700                | 12     |
|                     | Silver Plate / Gold Contips | ASTM B-700/ASTM B-488     | 20     |
| Cadmium             | Yellow Chromate             | QQ-P-416                  | 05     |
|                     | Clear Chromate              | QQ-P-416                  | 06     |
| Tin Lead*           | Solder                      | SAE AMS-P-81728           | 07     |
| Nickel              | Dull                        | QQ-N-290                  | 09     |
|                     | Bright                      | QQ-N-290                  | 19     |
|                     | Engineering (Sulfamate)     | SAE AMS 2424              | 24     |
| Electroless Nickel  | Mid Phos Electroless Nickel | MIL-C-26074               | 18     |
| Tin                 | Satin                       | ASTM B-545                | 08     |
|                     | Bright                      | ASTM B-545                | 17     |
| Zinc                | Yellow Chromate             | SAE AMS 2402              | 16     |
|                     | Clear Chromate              | SAE AMS 2402              | 15     |
| Rhodium             | Rhodium                     | ASTM B-634                | 22     |
| Stainless Steel     | Passivation                 | SAE AMS QQ-P-35           | —      |

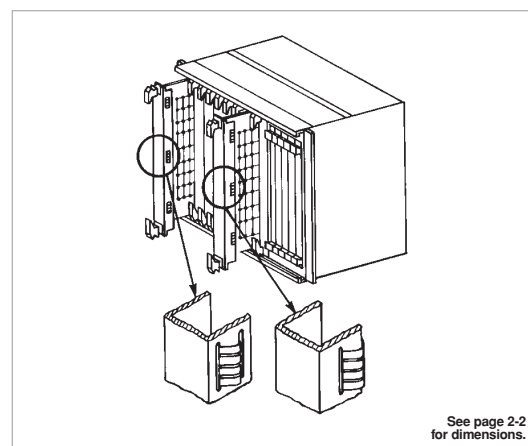
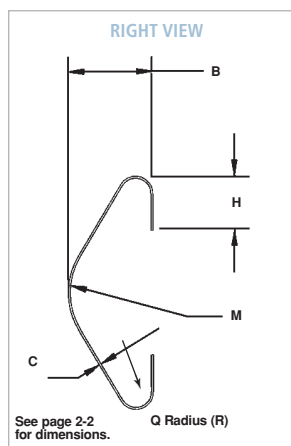
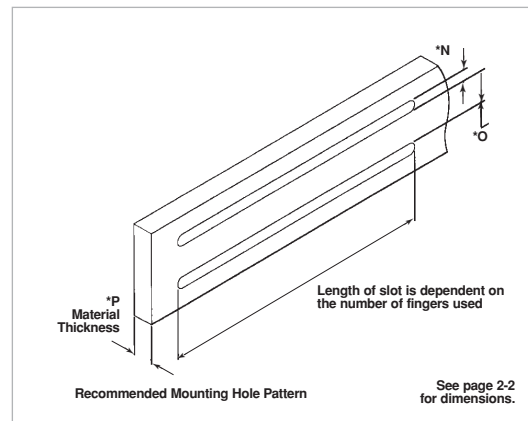
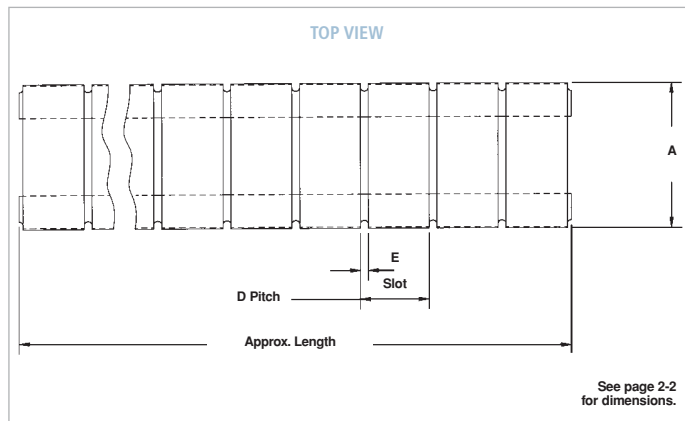
\*Not recommended for Foldover Series.                      Note: Refer to page 5-2 for Metals Galvanic Compatibility Chart.



Laird Technologies' Slot Mount Series of beryllium copper shielding gaskets is designed for use in a wide variety of slotted applications. This economical product line is ideal for both grounding and shielding applications.

- Minimal slot fabrication cost
- Easy and cost-effective installation since fasteners and adhesives are not required
- Bi-directional wiping and compression action to accommodate a wide variety of designs
- Ideal for grounding and shielding in the following electronic enclosure applications:
  - Front panel handles
  - Chassis covers
  - Plug-in units
  - Backplanes
  - Subrack assemblies
- Standard (77-Series) and UltraSoft® (78-Series low compression versions) are also supplied in 25.0 ft. (7.6 m) coils

The Slot Mount Series is available in your choice of finishes, see page 1-11. For load/deflection data, see page 2-33.



Slot Mount Series are available with Universal and Tape Track mounting options, see page 1-9, 1-10.

# FINGERSTOCK GASKETS AND METAL GROUNDING PRODUCTS

## SLOT MOUNT SERIES



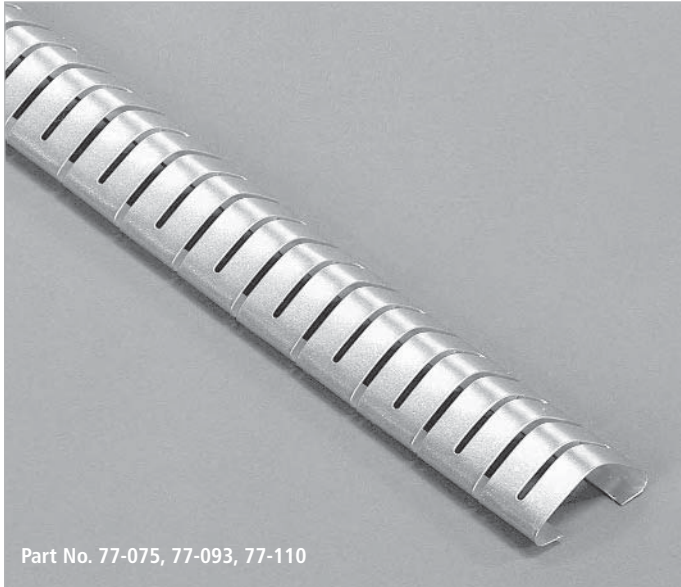
### SLOT MOUNT SERIES DIMENSIONS

| SERIES | A                 | B                | C                | D                | E                | H                | M                | RECOMMENDED      |                   |                  | Q (R)            | LENGTH APPROX.      | # OF FING. |
|--------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|---------------------|------------|
|        |                   |                  |                  |                  |                  |                  |                  | *N               | *O                | *P               |                  |                     |            |
| 77-010 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 16.000<br>(406.400) | 86<br>—    |
| 77-011 | 0.600<br>(15.240) | 0.220<br>(5.588) | 0.005<br>(0.127) | 0.282<br>(7.163) | 0.032<br>(0.813) | 0.140<br>(3.556) | 0.180<br>(4.572) | 0.140<br>(3.556) | 0.520<br>(13.208) | 0.070<br>(1.778) | 0.040<br>(1.016) | 16.000<br>(406.400) | 57<br>—    |
| 77-015 | 0.600<br>(15.240) | 0.220<br>(5.588) | 0.005<br>(0.127) | N/A<br>—         | N/A<br>—         | 0.140<br>(3.556) | 0.180<br>(4.572) | 0.140<br>(3.556) | 0.520<br>(13.208) | 0.070<br>(1.778) | 0.040<br>(1.016) | 0.250<br>(6.350)    | 1<br>—     |
| 77-016 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | N/A<br>—         | N/A<br>—         | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.169<br>(4.293)    | 1<br>—     |
| 77-017 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.356<br>(9.042)    | 2<br>—     |
| 77-018 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.543<br>(13.792)   | 3<br>—     |
| 77-019 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.730<br>(18.542)   | 4<br>—     |
| 77-020 | 0.600<br>(15.240) | 0.220<br>(5.588) | 0.005<br>(0.127) | 0.282<br>(7.163) | 0.032<br>(0.813) | 0.140<br>(3.556) | 0.180<br>(4.572) | 0.140<br>(3.556) | 0.520<br>(13.208) | 0.070<br>(1.778) | 0.040<br>(1.016) | 0.532<br>(13.513)   | 2<br>—     |
| 77-021 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 16.000<br>(406.400) | 86<br>—    |
| 77-023 | 0.370<br>(9.398)  | 0.130<br>(3.302) | 0.004<br>(0.102) | N/A<br>—         | N/A<br>—         | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.300<br>(7.620)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.225<br>(5.715)    | 1<br>—     |
| 77-024 | 0.370<br>(9.398)  | 0.130<br>(3.302) | 0.004<br>(0.102) | 0.250<br>(6.350) | 0.025<br>(0.635) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.300<br>(7.620)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.475<br>(12.065)   | 2<br>—     |
| 77-025 | 0.370<br>(9.398)  | 0.130<br>(3.302) | 0.004<br>(0.102) | 0.250<br>(6.350) | 0.025<br>(0.635) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.300<br>(7.620)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.725<br>(18.415)   | 3<br>—     |
| 77-026 | 0.370<br>(9.398)  | 0.130<br>(3.302) | 0.005<br>(0.127) | 0.250<br>(6.350) | 0.025<br>(0.635) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.300<br>(7.620)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 0.975<br>(24.765)   | 4<br>—     |
| 77-027 | 0.370<br>(9.398)  | 0.130<br>(3.302) | 0.005<br>(0.127) | 0.250<br>(6.350) | 0.025<br>(0.635) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.300<br>(7.620)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 1.225<br>(31.115)   | 5<br>—     |
| 77-028 | 0.370<br>(9.398)  | 0.130<br>(3.302) | 0.005<br>(0.127) | 0.250<br>(6.350) | 0.025<br>(0.635) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.300<br>(7.620)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 1.475<br>(37.465)   | 6<br>—     |
| 77-029 | 0.800<br>(20.320) | 0.320<br>(8.128) | 0.004<br>(0.102) | N/A<br>—         | N/A<br>—         | 0.200<br>(5.080) | 0.180<br>(4.572) | 0.220<br>(5.588) | 0.720<br>(18.288) | 0.070<br>(1.778) | 0.040<br>(1.016) | 0.343<br>(8.712)    | 1<br>—     |
| 77-030 | 0.800<br>(20.320) | 0.320<br>(8.128) | 0.004<br>(0.102) | 0.375<br>(9.525) | 0.032<br>(0.813) | 0.200<br>(5.080) | 0.180<br>(4.572) | 0.220<br>(5.588) | 0.720<br>(18.288) | 0.070<br>(1.778) | 0.040<br>(1.016) | 0.718<br>(18.237)   | 2<br>—     |
| 77-031 | 0.800<br>(20.320) | 0.320<br>(8.128) | 0.005<br>(0.127) | 0.375<br>(9.525) | 0.032<br>(0.813) | 0.200<br>(5.080) | 0.180<br>(4.572) | 0.220<br>(5.588) | 0.720<br>(18.288) | 0.070<br>(1.778) | 0.040<br>(1.016) | 1.093<br>(27.762)   | 3<br>—     |
| 77-032 | 0.800<br>(20.320) | 0.320<br>(8.128) | 0.005<br>(0.127) | 0.375<br>(9.525) | 0.032<br>(0.813) | 0.200<br>(5.080) | 0.180<br>(4.572) | 0.220<br>(5.588) | 0.720<br>(18.288) | 0.070<br>(1.778) | 0.040<br>(1.016) | 1.468<br>(37.287)   | 4<br>—     |
| 77-035 | 0.310<br>(7.874)  | 0.120<br>(3.048) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.020<br>(0.508) | 0.090<br>(2.286) | 0.115<br>(2.921) | 0.095<br>(2.413) | 0.250<br>(6.350)  | 0.015<br>(0.381) | 0.015<br>(0.381) | 0.480<br>(12.192)   | 2<br>—     |
| 77-036 | 0.310<br>(7.874)  | 0.120<br>(3.048) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.020<br>(0.508) | 0.090<br>(2.286) | 0.115<br>(2.921) | 0.095<br>(2.413) | 0.250<br>(6.350)  | 0.015<br>(0.381) | 0.015<br>(0.381) | 0.980<br>(24.892)   | 4<br>—     |
| 77-037 | 0.310<br>(7.874)  | 0.120<br>(3.048) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.020<br>(0.508) | 0.090<br>(2.286) | 0.115<br>(2.921) | 0.095<br>(2.413) | 0.250<br>(6.350)  | 0.015<br>(0.381) | 0.015<br>(0.381) | 1.480<br>(37.592)   | 6<br>—     |
| 77-038 | 0.310<br>(7.874)  | 0.120<br>(3.048) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.020<br>(0.508) | 0.090<br>(2.286) | 0.115<br>(2.921) | 0.095<br>(2.413) | 0.250<br>(6.350)  | 0.015<br>(0.381) | 0.015<br>(0.381) | 1.980<br>(50.292)   | 8<br>—     |
| 77-039 | 0.280<br>(7.112)  | 0.110<br>(2.794) | 0.002<br>(0.051) | N/A<br>—         | N/A<br>—         | 0.075<br>(1.905) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.220<br>(5.588)  | 0.040<br>(1.016) | 0.030<br>(0.762) | 0.169<br>(4.293)    | 1<br>—     |
| 77-040 | 0.280<br>(7.112)  | 0.110<br>(2.794) | 0.002<br>(0.051) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.075<br>(1.905) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.220<br>(5.588)  | 0.040<br>(1.016) | 0.030<br>(0.762) | 0.356<br>(9.042)    | 2<br>—     |
| 77-041 | 0.280<br>(7.112)  | 0.110<br>(2.794) | 0.002<br>(0.051) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.075<br>(1.905) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.220<br>(5.588)  | 0.040<br>(1.016) | 0.030<br>(0.762) | 0.543<br>(13.792)   | 3<br>—     |
| 77-042 | 0.280<br>(7.112)  | 0.110<br>(2.794) | 0.002<br>(0.051) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.075<br>(1.905) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.220<br>(5.588)  | 0.040<br>(1.016) | 0.030<br>(0.762) | 0.730<br>(18.542)   | 4<br>—     |
| 77-044 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 1.104<br>(28.042)   | 6<br>—     |

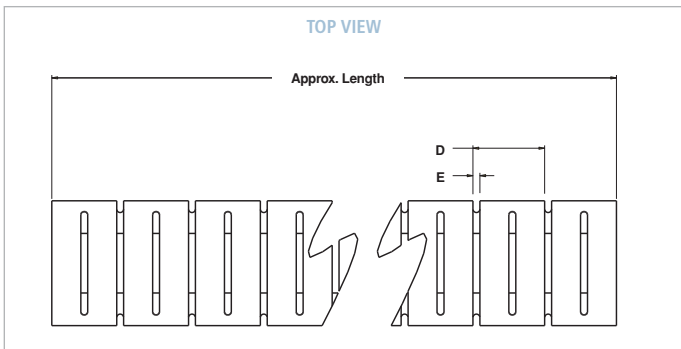
\* May vary depending upon application.

| SERIES | A                 | B                | C                | D                | E                | H                | M                | RECOMMENDED      |                   |                  | Q (R)            | LENGTH APPROX.      | # OF FING. |
|--------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|---------------------|------------|
|        |                   |                  |                  |                  |                  |                  |                  | *N               | *O                | *P               |                  |                     |            |
| 77-045 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | N/A<br>—         | N/A<br>—         | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 0.169<br>(4.293)    | 1<br>—     |
| 77-046 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 0.356<br>(9.042)    | 2<br>—     |
| 77-047 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 0.543<br>(13.792)   | 3<br>—     |
| 77-048 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 0.730<br>(18.542)   | 4<br>—     |
| 77-050 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 0.917<br>(23.292)   | 5<br>—     |
| 77-051 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 1.104<br>(28.042)   | 6<br>—     |
| 77-052 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 1.291<br>(32.791)   | 7<br>—     |
| 77-053 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 1.478<br>(37.541)   | 8<br>—     |
| 77-054 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 1.665<br>(42.291)   | 9<br>—     |
| 77-055 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 1.852<br>(47.041)   | 10<br>—    |
| 77-058 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.060<br>(1.524) | 0.040<br>(1.016) | 0.917<br>(23.292)   | 5<br>—     |
| 77-059 | 0.370<br>(9.398)  | 0.130<br>(3.302) | 0.004<br>(0.102) | 0.250<br>(6.350) | 0.025<br>(0.635) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.310<br>(7.874)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 16.000<br>(406.400) | 64<br>—    |
| 77-062 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.048<br>(1.219) | 0.025<br>(0.635) | 0.169<br>(4.293)    | 1<br>—     |
| 77-063 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.048<br>(1.219) | 0.025<br>(0.635) | 0.356<br>(9.042)    | 2<br>—     |
| 77-064 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.048<br>(1.219) | 0.025<br>(0.635) | 0.543<br>(13.792)   | 3<br>—     |
| 77-065 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.048<br>(1.219) | 0.025<br>(0.635) | 0.730<br>(18.542)   | 4<br>—     |
| 77-070 | 0.320<br>(8.128)  | 0.110<br>(2.794) | 0.004<br>(0.102) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.062<br>(1.575) | 0.035<br>(0.889) | 16.000<br>(406.400) | 86<br>—    |
| 77-076 | 0.600<br>(15.240) | 0.220<br>(5.588) | 0.005<br>(0.127) | N/A<br>—         | N/A<br>—         | 0.140<br>(3.556) | 0.180<br>(4.572) | 0.140<br>(3.556) | 0.520<br>(13.208) | 0.070<br>(1.778) | 0.020<br>(0.508) | 0.340<br>(8.636)    | 1<br>—     |
| 77-087 | 0.563<br>(14.300) | 0.110<br>(2.794) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 1.291<br>(32.791)   | 7<br>—     |
| 77-088 | 0.563<br>(14.300) | 0.110<br>(2.794) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604)  | 0.040<br>(1.016) | 0.020<br>(0.508) | 1.478<br>(37.541)   | 8<br>—     |
| 77-089 | 0.600<br>(15.240) | 0.220<br>(5.588) | 0.005<br>(0.127) | 0.282<br>(7.163) | 0.032<br>(0.813) | 0.140<br>(3.556) | 0.180<br>(4.572) | 0.140<br>(3.556) | 0.520<br>(13.208) | 0.070<br>(1.778) | 0.040<br>(1.016) | 0.810<br>(20.574)   | 3<br>—     |
|        |                   |                  |                  |                  |                  |                  |                  |                  |                   |                  |                  |                     |            |



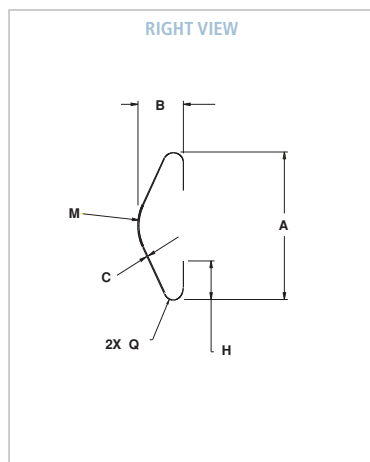


Dual slot mount parts are available for a variety of slotted applications. The dual slot feature optimizes the compression force and provides a good operating range. This product is ideal for both shielding and grounding applications. The bi-directional wiping and compression action accommodates a wide variety of designs. Ideal for use in the grounding and shielding of front panel handles, sub rack assemblies, plug-in units, back planes and other electronic enclosure applications.



**DUAL SLOT SERIES DIMENSIONS**

| SERIES | A                | B                | C                | D                | E                | H                | M                | N                | O                | P                | Q                | LENGTH APPROX.      | # OF FING. |
|--------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|---------------------|------------|
|        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                     |            |
| 77-075 | 0.325<br>(8.255) | 0.100<br>(2.54)  | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604) | 0.040<br>(1.016) | 0.020<br>(0.508) | 16.000<br>(406.400) | 86<br>—    |
| 77-093 | 0.325<br>(8.255) | 0.140<br>(3.556) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604) | 0.040<br>(1.016) | 0.020<br>(0.508) | 16.000<br>(406.400) | 86<br>—    |
| 77-110 | 0.325<br>(8.255) | 0.125<br>(3.175) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.085<br>(2.159) | 0.110<br>(2.794) | 0.090<br>(2.286) | 0.260<br>(6.604) | 0.040<br>(1.016) | 0.020<br>(0.508) | 16.000<br>(406.400) | 86<br>—    |



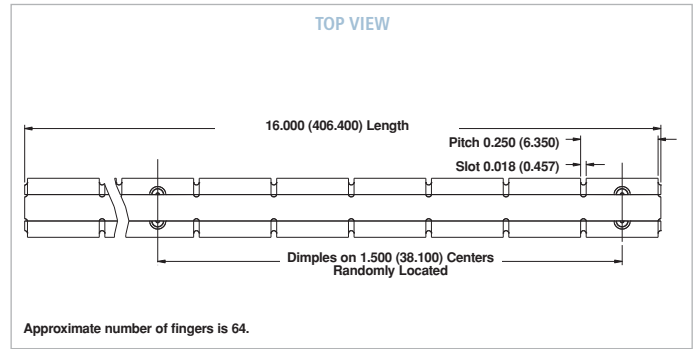
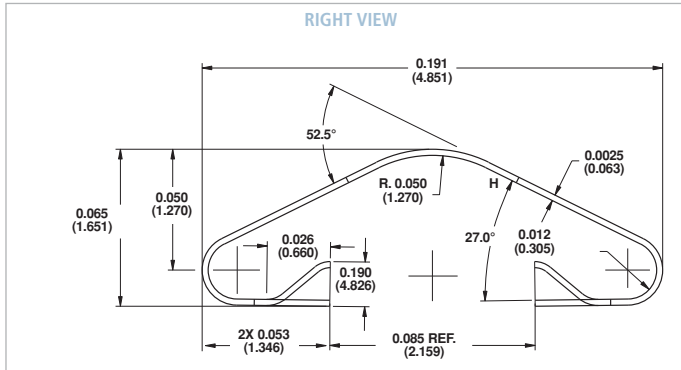
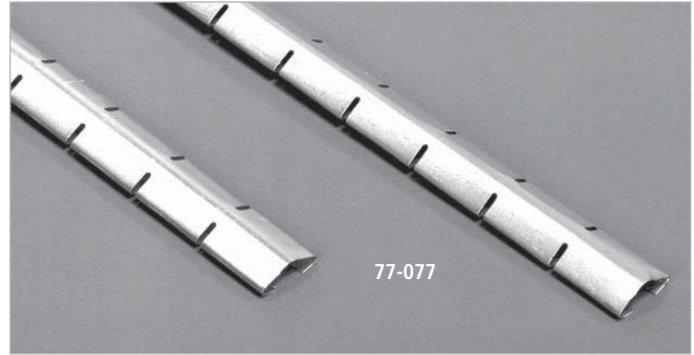
All dimensions shown are in inches (millimeters) unless otherwise specified.



Laird Technologies offers a unique product designed to shield the front panels of IEEE standard 1101.10 card cages, commonly referred to as Dot-10, called the Compact PCI gasket.

This front panel shielding has been designed to shield between the front panels on sub racks and plug-in units. This is a beryllium copper solid top symmetrical slotted fingerstock strip pre-plated in sulfamate nickel. It is designed to mount on the "T" shape on a front panel extrusion (see below). Specially designed for wiping applications, this configuration allows total symmetrical compression action with bi-directional engagement.

Standard size shown is based on the 9.5" (241.300) length per the Dot-10 standard. Other lengths and plating finishes are available for your specific application.

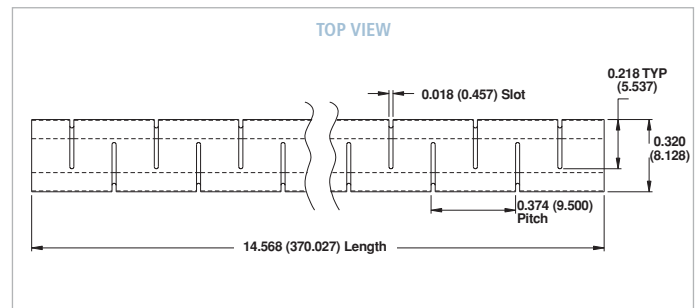
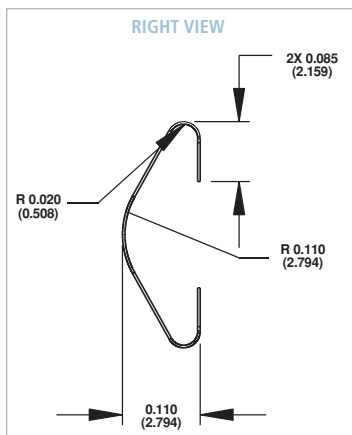
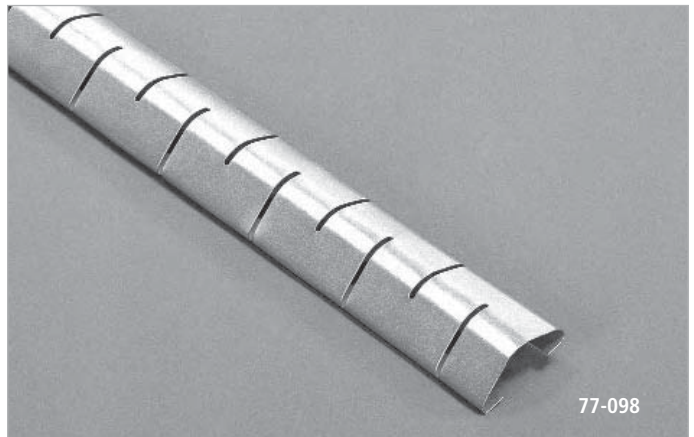


Laird Technologies alternating slot/cut design is designed for use in a wide variety of slotted applications, such as front panel handles, plug-in units, subrack assemblies, chassis covers and backplanes.

The alternating slot /cut design serves to enhance the gasket strength, while providing enough flexibility to allow the part to be folded in half with no resultant finger damage. This is especially significant in during installation or repair.

Available in a wide variety of plating finishes to meet galvanic compatibility requirements.

Available in UltraSoft™, low compression series (-078).



All dimensions shown are in inches (millimeters) unless otherwise specified.

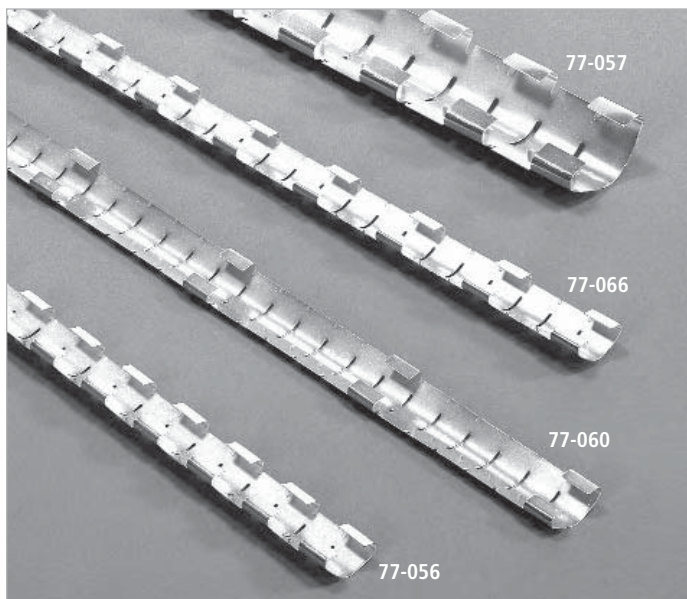
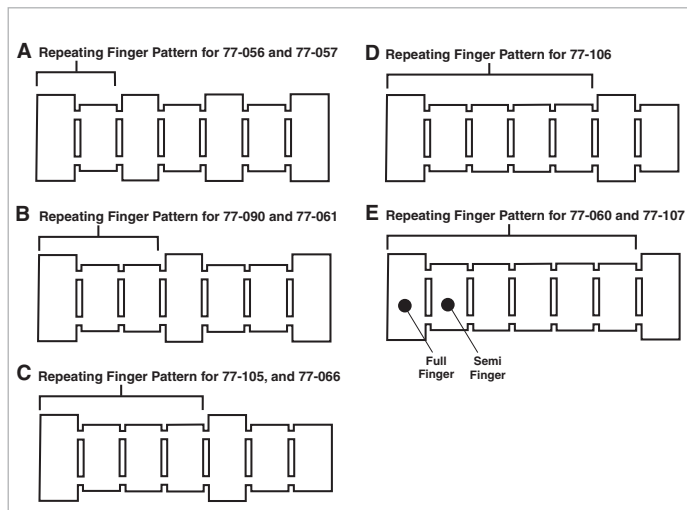
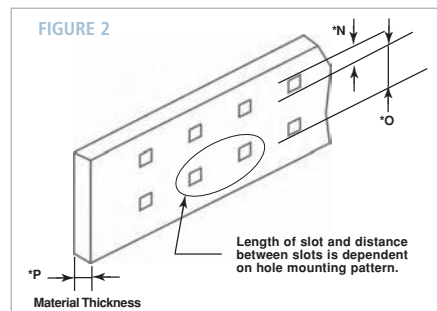
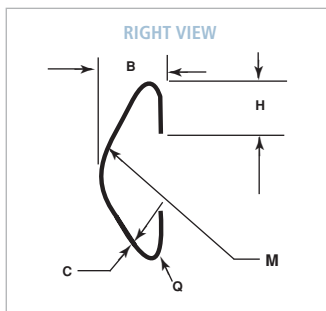
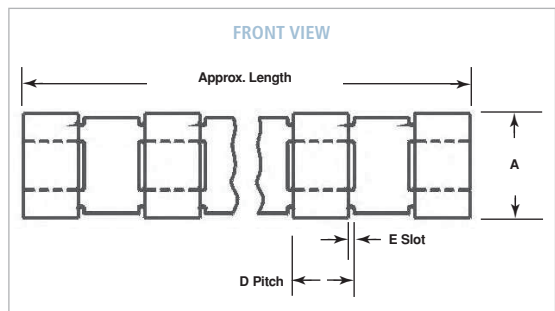
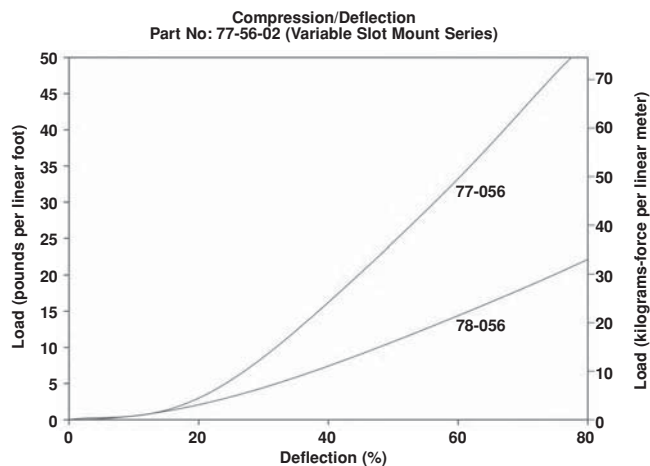


FIGURE 1: REPEATING FINGER PATTERN



Laird Technologies introduces Variable Slot Mount shielding, which eliminates the use of long slots while still utilizing the easy installation method of slot mount shielding. Fingers are removed from the strip in areas where a mounting slot is not present. The Variable Slot Mount shielding strips can be customized to any patterned series of slots.

- Easy and cost-effective installation since fasteners and adhesives are not required
- Improved shielding effectiveness compared to traditional slot mount series through elimination of long slots in host material
- Slot mounting feature can be varied to accommodate different lengths and hole mounting patterns (see figure 2)
- Three and five pitch segments ideal for grounding applications
- Bi-directional wiping and compression action to accommodate a wide variety of designs
- Available in standard (77-Series) and UltraSoft® (78-Series low compression versions)
- Ability to retrofit equipment when higher clock speeds limit current slot mount product without changing slot size or location
- One piece construction eliminates handling individual pieces, thereby shortening installation time
- Ideal for grounding and shielding in the following electronic enclosure applications:
  - Front panel handles
  - Chassis covers
  - Backplanes
  - Plug-in units
  - Subrack assemblies

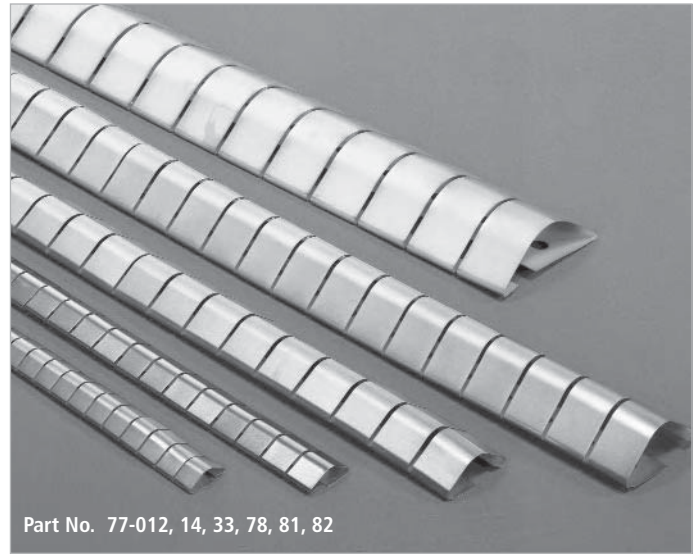
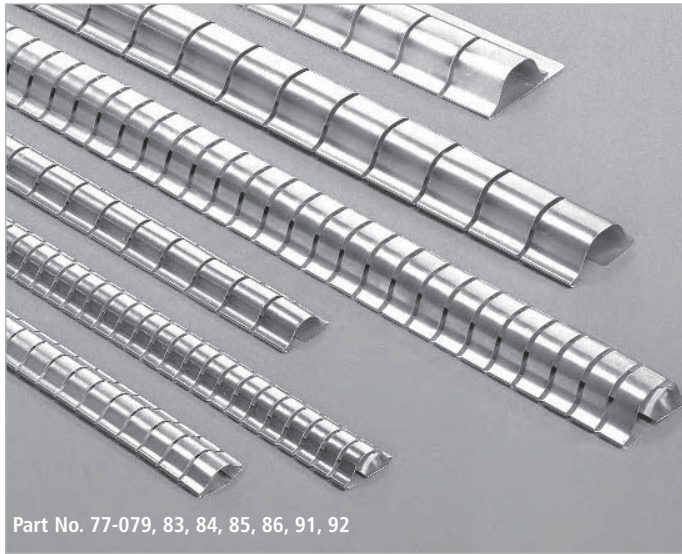


**VARIABLE SLOT MOUNT DIMENSIONS**

| SERIES VIEW** | A              | B             | C             | D             | E             | H             | M             | *N RECOMMENDED | *O             | *P            | Q (R)         | LENGTH APPROX.   | # OF FING. |
|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|------------------|------------|
| 77-056 A      | 0.320 (8.128)  | 0.110 (2.794) | 0.004 (0.102) | 0.187 (4.750) | 0.018 (0.457) | 0.085 (2.159) | 0.110 (2.794) | 0.090 (2.286)  | 0.260 (6.604)  | 0.040 (1.016) | 0.020 (0.508) | 16.000 (406.400) | 86         |
| 77-057 A      | 0.600 (15.240) | 0.220 (5.588) | 0.005 (0.127) | 0.282 (7.163) | 0.032 (0.813) | 0.130 (3.302) | 0.180 (4.572) | 0.140 (3.556)  | 0.520 (13.208) | 0.070 (1.778) | 0.040 (1.016) | 16.000 (406.400) | 57         |
| 77-060 E      | 0.320 (8.128)  | 0.110 (2.794) | 0.003 (0.076) | 0.187 (4.750) | 0.018 (0.457) | 0.085 (2.159) | 0.110 (2.794) | 0.090 (2.286)  | 0.260 (6.604)  | 0.040 (1.016) | 0.020 (0.508) | 16.000 (406.400) | 86         |
| 77-061 B      | 0.320 (8.128)  | 0.110 (2.794) | 0.003 (0.076) | 0.187 (4.750) | 0.018 (0.457) | 0.085 (2.159) | 0.110 (2.794) | 0.090 (2.286)  | 0.260 (6.604)  | 0.040 (1.016) | 0.020 (0.508) | 16.000 (406.400) | 86         |
| 77-066 C      | 0.320 (8.128)  | 0.110 (2.794) | 0.003 (0.076) | 0.187 (4.750) | 0.018 (0.457) | 0.085 (2.159) | 0.110 (2.794) | 0.090 (2.286)  | 0.260 (6.604)  | 0.040 (1.016) | 0.020 (0.508) | 16.000 (406.400) | 86         |

| SERIES VIEW** | A              | B             | C             | D             | E             | H             | M             | *N RECOMMENDED | *O             | *P            | Q (R)         | LENGTH APPROX.   | # OF FING. |
|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|------------------|------------|
| 77-090 B      | 0.600 (15.240) | 0.220 (5.588) | 0.005 (0.127) | 0.282 (7.163) | 0.032 (0.813) | 0.140 (3.556) | 0.180 (4.572) | 0.140 (3.556)  | 0.520 (13.208) | 0.070 (1.778) | 0.040 (1.016) | 16.000 (406.400) | 57         |
| 77-105 C      | 0.600 (15.240) | 0.220 (5.588) | 0.005 (0.127) | 0.282 (7.163) | 0.032 (0.813) | 0.140 (3.556) | 0.180 (4.572) | 0.140 (3.556)  | 0.520 (13.208) | 0.070 (1.778) | 0.040 (1.016) | 16.000 (406.400) | 57         |
| 77-106 D      | 0.600 (15.240) | 0.220 (5.588) | 0.005 (0.127) | 0.282 (7.163) | 0.032 (0.813) | 0.140 (3.556) | 0.180 (4.572) | 0.140 (3.556)  | 0.520 (13.208) | 0.070 (1.778) | 0.040 (1.016) | 16.000 (406.400) | 57         |
| 77-107 E      | 0.600 (15.240) | 0.220 (5.588) | 0.005 (0.127) | 0.282 (7.163) | 0.032 (0.813) | 0.140 (3.556) | 0.180 (4.572) | 0.140 (3.556)  | 0.520 (13.208) | 0.070 (1.778) | 0.040 (1.016) | 16.000 (406.400) | 57         |

\* May vary depending upon application.  
 \*\* See Figure 1 for finger patterns.



Laird Technologies No Snag Series shielding gaskets offer the designer a low compression, no snag design. Provided with Sticky Fingers® self-adhesive tape, these beryllium copper shielding gaskets provide easy and secure mounting.

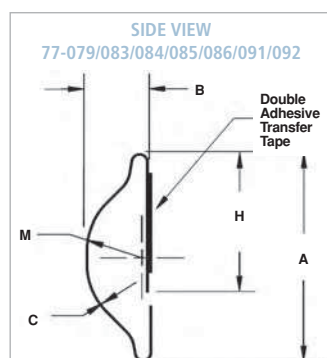
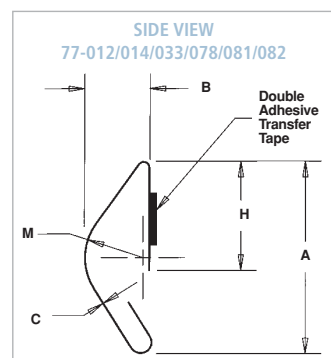
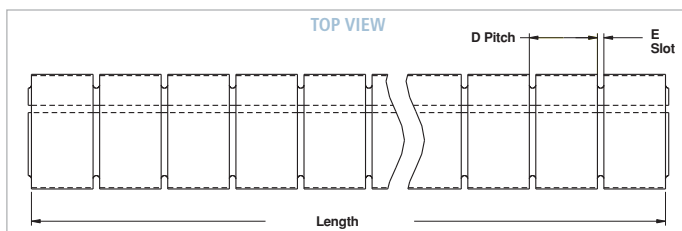
- Shielding effectiveness of > 100 db (77-012) and 80 dB (77-014) for a 100 MHz plane wave
- Easy, cost-effective installation since fasteners are not required
- Ideal as an all-purpose contact strip for metal cabinets and electronic enclosures
- Available in a wide variety of plated finishes, see page 1-11
- Supplied in standard 24.000 in. (609.600 mm) lengths or other specified lengths

For load/deflection data, see page 2-33.

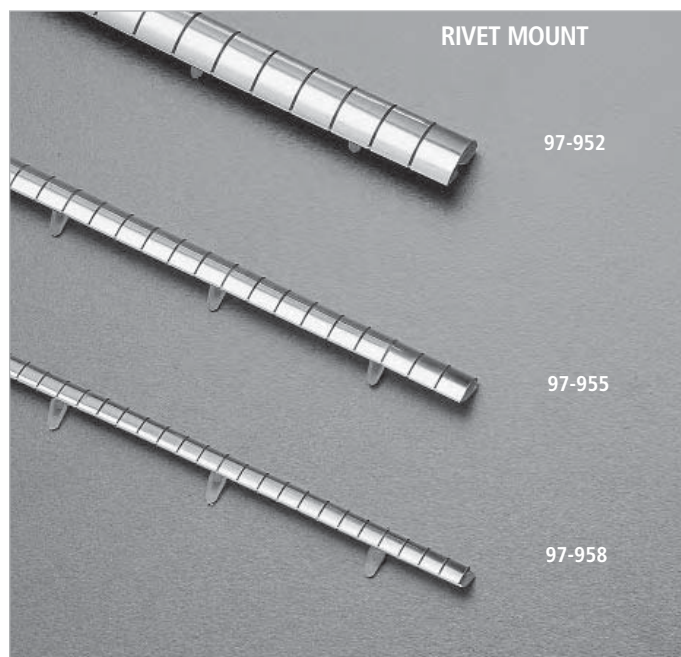
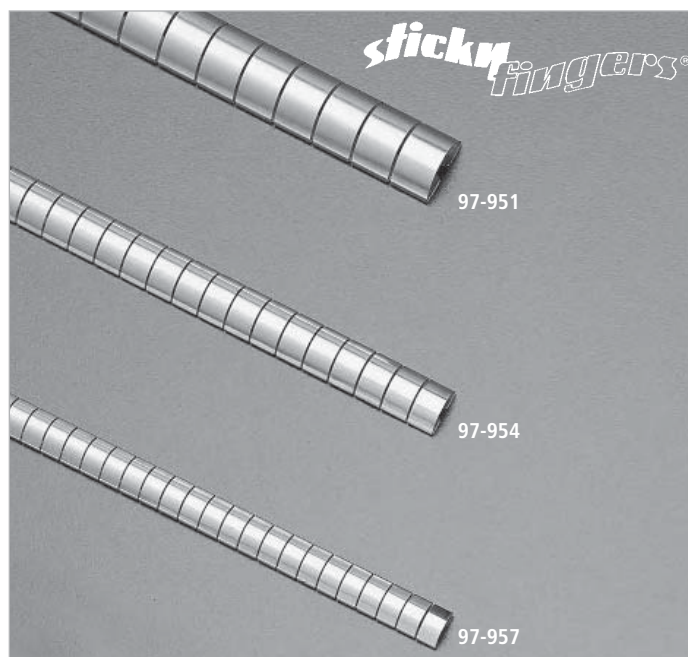
**NO SNAG GASKET DIMENSIONS**

| SERIES   | A                 | B                 | C                | D                 | E                | H                 | M                 | APPROX. LENGTH      |
|----------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|---------------------|
|          |                   |                   |                  |                   |                  |                   | RADIUS            |                     |
| 77-012   | 0.320<br>(8.128)  | 0.110<br>(2.794)  | 0.002<br>(0.051) | 0.187<br>(4.750)  | 0.018<br>(0.457) | 0.210<br>(5.334)  | 0.110<br>(2.794)  | 24.000<br>(609.600) |
| * 77-014 | 0.600<br>(15.240) | 0.220<br>(5.588)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.032<br>(0.813) | 0.280<br>(7.112)  | 0.180<br>(4.572)  | 24.000<br>(609.600) |
| 77-033   | 0.370<br>(9.398)  | 0.130<br>(3.302)  | 0.002<br>(0.051) | 0.250<br>(6.350)  | 0.025<br>(0.635) | 0.210<br>(5.334)  | 0.110<br>(2.794)  | 16.000<br>(406.400) |
| * 77-078 | 0.800<br>(20.320) | 0.320<br>(8.128)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.032<br>(0.813) | 0.440<br>(11.176) | 0.190<br>(4.826)  | 24.000<br>(609.600) |
| * 77-079 | 0.320<br>(8.128)  | 0.100<br>(2.540)  | 0.035<br>(0.889) | 0.156<br>(3.962)  | 0.018<br>(0.457) | 0.210<br>(5.334)  | 0.100<br>(2.540)  | 16.000<br>(406.400) |
| 77-081   | 0.280<br>(7.112)  | 0.110<br>(2.794)  | 0.002<br>(0.051) | 0.187<br>(4.750)  | 0.018<br>(0.457) | 0.180<br>(4.572)  | 0.100<br>(2.540)  | 24.000<br>(609.600) |
| * 77-082 | 1.100<br>(27.940) | 0.400<br>(10.160) | 0.005<br>(0.127) | 0.500<br>(12.700) | 0.040<br>(1.016) | 0.780<br>(19.812) | 0.420<br>(10.668) | 24.000<br>(609.600) |
| * 77-083 | 0.370<br>(9.398)  | 0.130<br>(3.302)  | 0.004<br>(0.102) | 0.125<br>(3.175)  | 0.025<br>(0.635) | 0.100<br>(2.540)  | 0.202<br>(5.131)  | 16.000<br>(406.400) |
| * 77-084 | 0.370<br>(9.398)  | 0.130<br>(3.302)  | 0.004<br>(0.102) | 0.250<br>(6.350)  | 0.025<br>(0.635) | 0.100<br>(2.540)  | 0.202<br>(5.131)  | 16.000<br>(406.400) |
| * 77-085 | 0.600<br>(15.240) | 0.220<br>(5.588)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.032<br>(0.813) | 0.150<br>(3.810)  | 0.295<br>(7.493)  | 18.000<br>(457.200) |
| * 77-086 | 0.320<br>(8.128)  | 0.090<br>(2.286)  | 0.003<br>(0.762) | 0.187<br>(4.750)  | 0.018<br>(0.457) | 0.210<br>(5.334)  | 0.100<br>(2.540)  | 16.000<br>(406.400) |
| * 77-091 | 0.600<br>(15.240) | 0.220<br>(5.588)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.032<br>(0.813) | 0.780<br>(19.812) | 0.150<br>(3.810)  | 18.000<br>(457.200) |
| * 77-092 | 0.600<br>(15.240) | 0.220<br>(5.588)  | 0.004<br>(0.102) | 0.187<br>(4.750)  | 0.032<br>(0.813) | 0.295<br>(7.493)  | 0.150<br>(3.810)  | 18.000<br>(457.200) |

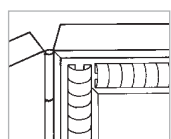
\* Available in UltraSoft® low compression version as -78.



All dimensions shown are in inches (millimeters) unless otherwise specified.



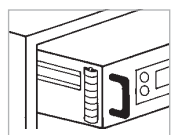
Strips with Sticky Fingers® and Rivet Mounts exhibit typical attenuation >100 dB for a 100 MHz plane wave.



**WITH STICKY FINGERS**

Series 97-951/954/957 are low compression, adhesive-mounted beryllium copper shielding strips. Designed as a continuous band, the strip is slotted to permit spring contact throughout its length. A wide radius profile creates

the greatest contact for maximum conductivity with minimum compression requirements. As with all Sticky Fingers shielding strips, a self-adhesive tape makes mounting easy and secure. All are available in your choice of finishes, see page 1-11. For load/deflection data, see page 2-33.



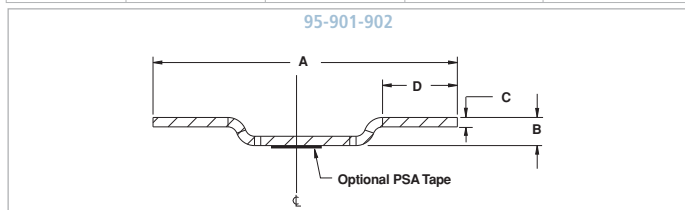
**WITH BI-DIRECTIONAL RIVET MOUNT**

Series 97-952/955/958 are as described above, but with the addition of an integral pierced brass track to provide plastic push rivet mounting in a 0.125 in. (3.175 mm) diameter hole.

Designed especially for slide applications, this configuration allows total symmetrical compression action with bi-directional engagement. It is recommended for high temperature and/or extremely high side load situations, such as PC board connections and electronic drawers. All are available in your choice of finishes, see page 1-11. For load/deflection data, see page 2-33. Both are available in UltraSoft® low compression force 98-Series.

**S<sup>3</sup> SERIES**

| SERIES | A                | B                | C                | D                |
|--------|------------------|------------------|------------------|------------------|
| 95-901 | 0.284<br>(7.214) | 0.030<br>(0.762) | 0.010<br>(0.254) | 0.068<br>(1.727) |
| 95-902 | 0.325<br>(8.255) | 0.030<br>(0.762) | 0.010<br>(0.254) | 0.080<br>(2.032) |



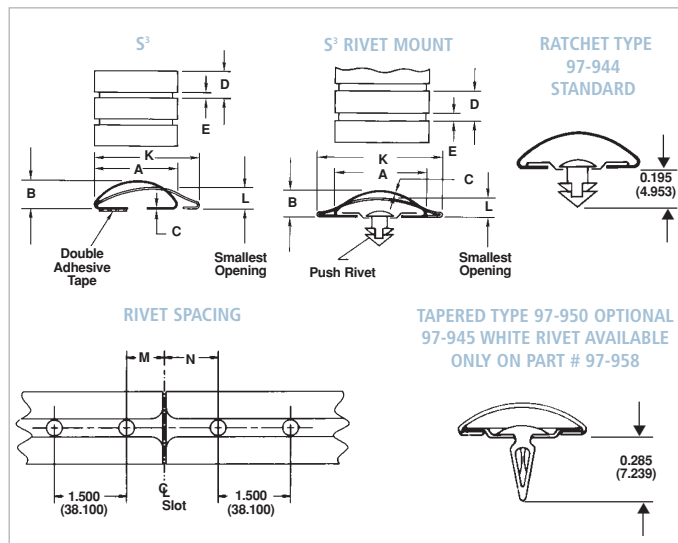
All dimensions shown are in inches (millimeters) unless otherwise specified.

**S<sup>3</sup> SERIES — STICKY FINGERS**

| SERIES | A MIN.            | B                | C                | D                | E                | K                 | L                | APPROX. LENGTH      |
|--------|-------------------|------------------|------------------|------------------|------------------|-------------------|------------------|---------------------|
| 97-951 | 0.620<br>(15.748) | 0.220<br>(5.588) | 0.004<br>(0.102) | 0.375<br>(9.525) | 0.030<br>(0.762) | 0.760<br>(19.304) | 0.100<br>(2.540) | 15.000<br>(381.000) |
| 97-954 | 0.450<br>(11.430) | 0.140<br>(3.556) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.022<br>(0.559) | 0.510<br>(12.954) | 0.070<br>(1.778) | 15.000<br>(381.000) |
| 97-957 | 0.350<br>(8.890)  | 0.110<br>(2.794) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.380<br>(9.652)  | 0.055<br>(1.397) | 15.000<br>(381.000) |

**S<sup>3</sup> SERIES — RIVET MOUNT**

| SERIES | A                 | B MIN.           | C                | D                | E                | K                 | L                | APPROX. LENGTH      | M                 | N                 | NO. OF RIVETS |
|--------|-------------------|------------------|------------------|------------------|------------------|-------------------|------------------|---------------------|-------------------|-------------------|---------------|
| 97-952 | 0.620<br>(15.748) | 0.220<br>(5.588) | 0.004<br>(0.102) | 0.375<br>(9.525) | 0.030<br>(0.762) | 0.760<br>(19.304) | 0.100<br>(2.540) | 15.000<br>(381.000) | 0.560<br>(14.224) | 0.940<br>(23.876) | 10<br>—       |
| 97-955 | 0.450<br>(11.430) | 0.140<br>(3.556) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.022<br>(0.559) | 0.510<br>(12.954) | 0.070<br>(1.778) | 15.000<br>(381.000) | 0.630<br>(16.002) | 0.880<br>(22.352) | 10<br>—       |
| 97-958 | 0.350<br>(8.890)  | 0.110<br>(2.794) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.380<br>(9.652)  | 0.070<br>(1.778) | 15.000<br>(381.000) | 0.660<br>(16.764) | 0.840<br>(21.336) | 10<br>—       |



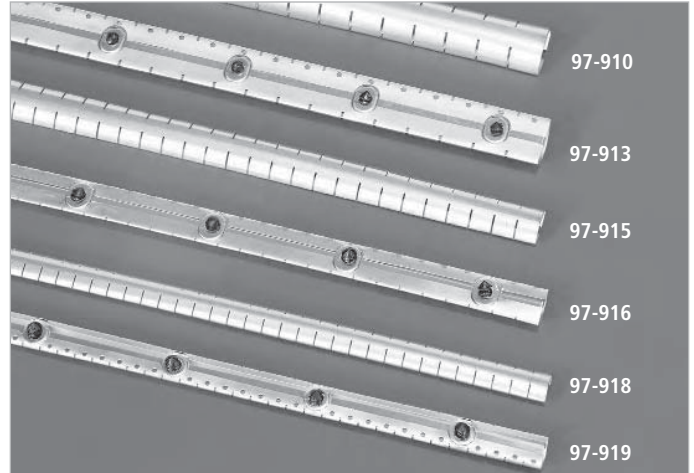
2 rivet types are available. Consult sales for more information.



Laird Technologies offers their Solid Top Symmetrical Slotted Shielding Gaskets. This product is uniquely designed for those applications where a lid or cover is closed using a sliding motion to complete the closure. The solid top design allows the cover to slide either perpendicularly or parallel to the fingerstock without snagging or damaging the gasket.

The newly designed symmetrical shielding offers all the advantages of our S<sup>3</sup> series, having a large radius for maximum conductivity with minimum compression forces.

- Solid top provides an additional 10 dB of shielding effectiveness
- Offered in both rivet mount and tape mount versions
- Available with two types of rivets
- Generous radii provide maximum conductivity with minimum compression forces
- Parts can be modified and/or cut to any specific length
- For longitudinal sliding applications, a retention clip is recommended for secure mounting
- Available in standard or UltraSoft® (part numbers beginning with -98) versions



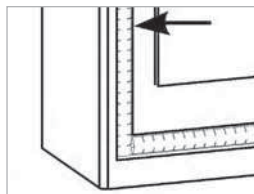
**SOLID TOP S<sup>3</sup> SERIES - STICKY FINGERS**

| SERIES | A MIN.            | B                | C                | D                | E                | K                 | L                | APPROX. LENGTH      |
|--------|-------------------|------------------|------------------|------------------|------------------|-------------------|------------------|---------------------|
| 97-910 | 0.620<br>(15.748) | 0.220<br>(5.588) | 0.004<br>(0.102) | 0.375<br>(9.525) | 0.030<br>(0.762) | 0.760<br>(19.304) | 0.100<br>(2.540) | 15.000<br>(381.000) |
| 97-915 | 0.450<br>(11.430) | 0.140<br>(3.556) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.022<br>(0.559) | 0.510<br>(12.954) | 0.070<br>(1.778) | 15.000<br>(381.000) |
| 97-918 | 0.350<br>(8.890)  | 0.110<br>(2.794) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.380<br>(9.652)  | 0.070<br>(1.778) | 15.000<br>(381.000) |

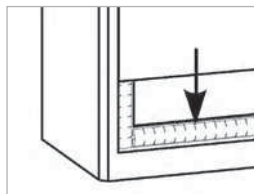
**SOLID TOP S<sup>3</sup> SERIES - RIVET MOUNT**

| SERIES | A MIN.            | B                | C                | D                | E                | K                 | L                | APPROX. LENGTH      | M                 | N                 | NO. OF RIVETS |
|--------|-------------------|------------------|------------------|------------------|------------------|-------------------|------------------|---------------------|-------------------|-------------------|---------------|
| 97-913 | 0.620<br>(15.748) | 0.220<br>(5.588) | 0.004<br>(0.102) | 0.375<br>(9.525) | 0.030<br>(0.762) | 0.760<br>(19.304) | 0.100<br>(2.540) | 15.000<br>(381.000) | 0.560<br>(14.224) | 0.940<br>(23.876) | 10            |
| 97-916 | 0.450<br>(11.430) | 0.140<br>(3.556) | 0.003<br>(0.076) | 0.250<br>(6.350) | 0.022<br>(0.559) | 0.510<br>(12.954) | 0.070<br>(1.778) | 15.000<br>(381.000) | 0.630<br>(16.002) | 0.880<br>(22.352) | 10            |
| 97-919 | 0.350<br>(8.890)  | 0.110<br>(2.794) | 0.003<br>(0.076) | 0.187<br>(4.750) | 0.018<br>(0.457) | 0.380<br>(9.652)  | 0.070<br>(1.778) | 15.000<br>(381.000) | 0.660<br>(16.764) | 0.840<br>(21.336) | 10            |

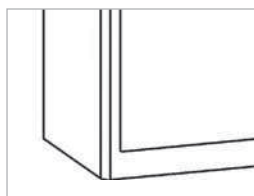
| RETENTION CLIP | PART NO. | RIVET MOUNT PART NO. |
|----------------|----------|----------------------|
| 97-964         | Used On  | 97-919               |
| 97-965         | Used On  | 97-916               |
| 97-966         | Used On  | 97-913               |



View A - Computer tower side panel is moved sideways during the first step of installation.

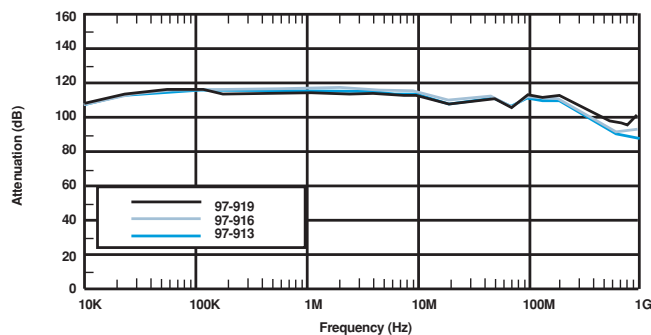


View B - Next, the panel is moved downwards, sliding longitudinally on the vertical finger gasket.

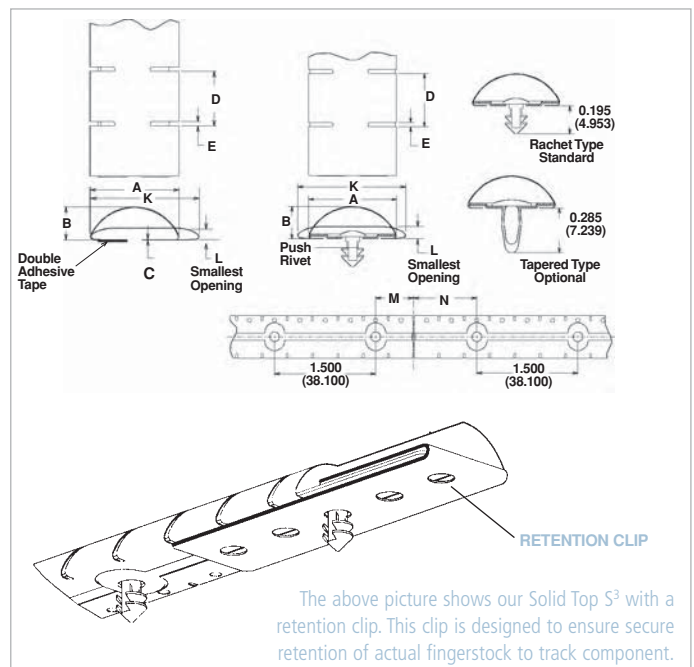


View C - Fully installed panel is now compressing both finger gaskets.

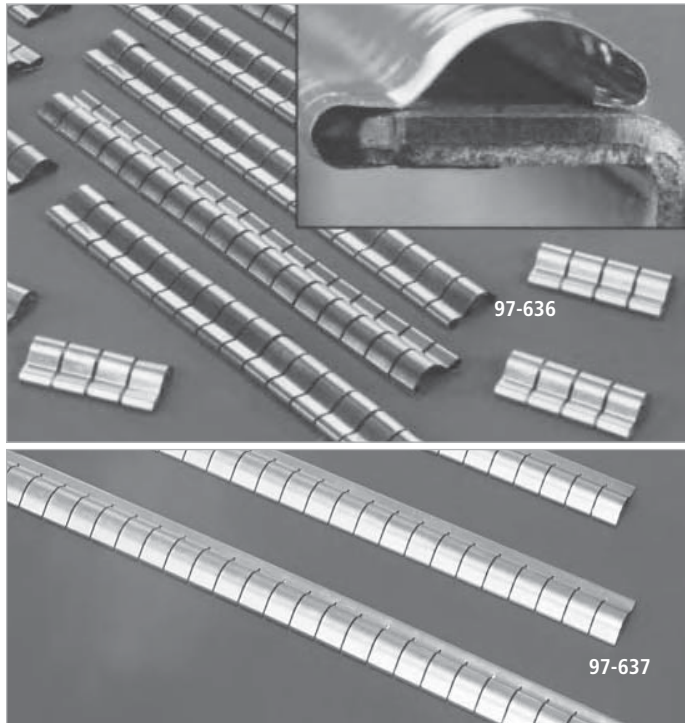
**SOLID TOP S<sup>3</sup> TRANSFER IMPEDANCE**



All dimensions shown are in inches (millimeters) unless otherwise specified.

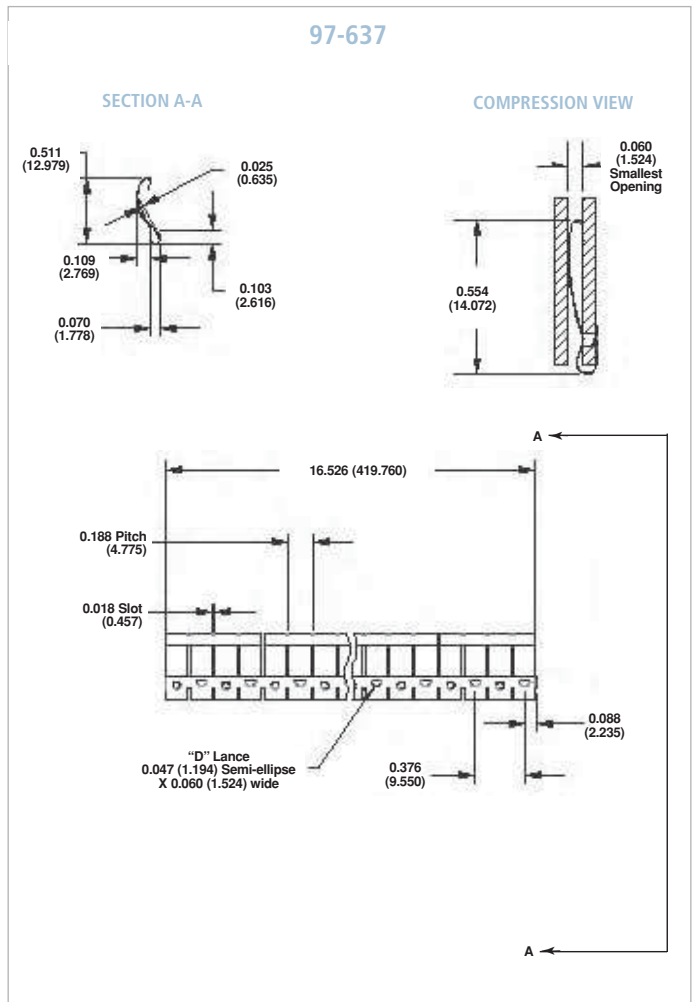
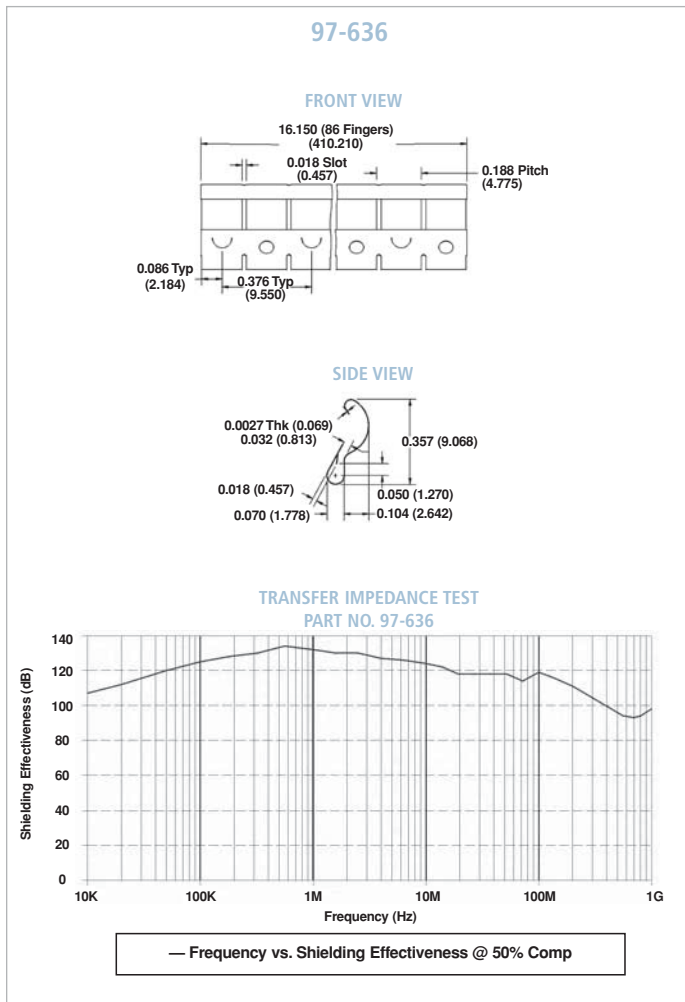


The above picture shows our Solid Top S<sup>3</sup> with a retention clip. This clip is designed to ensure secure retention of actual fingerstock to track component.

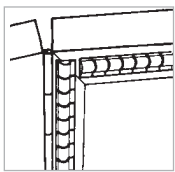
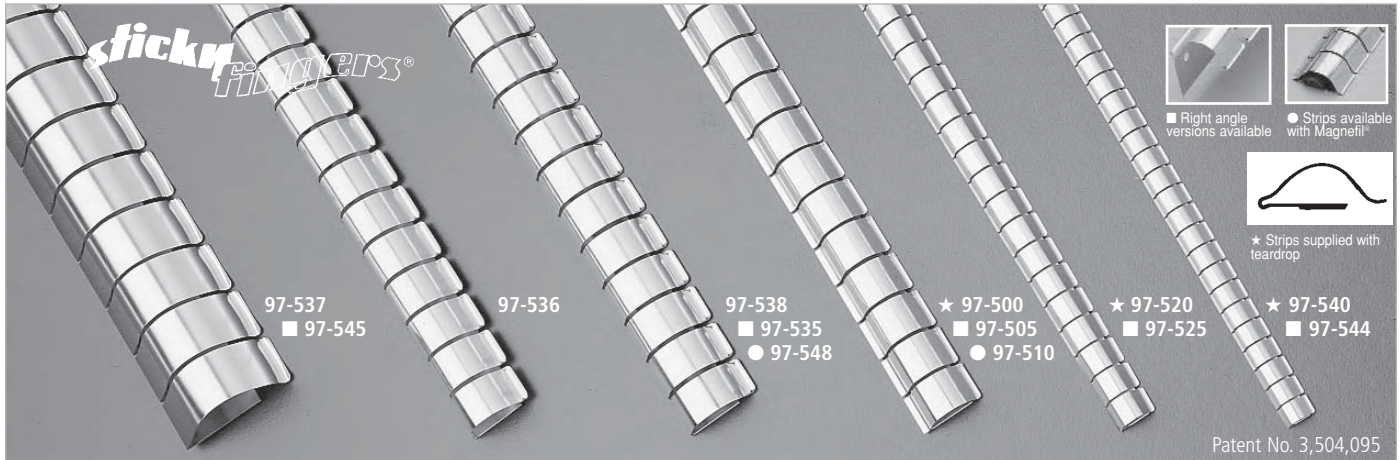


Laird Technologies has designed a new clip-on shielding gasket for applications where bi-directional engagement is required. The 97-636 and 97-637 Clip-On Symmetrical Shielding Gaskets have been designed to function equally well in applications requiring sliding movement or direct compression.

- Supplied with standard "D" lance ensuring secure holding power when snapped into a prefabricated hole
- "D" lance provides both multi-directional grip and excellent conductivity
- Wide radius profile allows for maximum contact with minimum compression force
- Clip-On feature allows part to be used in high temperature (above 250°F) applications where adhesives will not function
- Available in our UltraSoft® , 98-Series low force version
- Ideally suited for cardcage handles, PC board grounding or any other application requiring clip-on feature and wiping action
- Shielding effectiveness of 100 dB @ 100 MHz
- Available in a wide variety of plating finishes, see page 1-11
- For load/deflection data see pages 2-33



All dimensions shown are in inches (millimeters) unless otherwise specified.



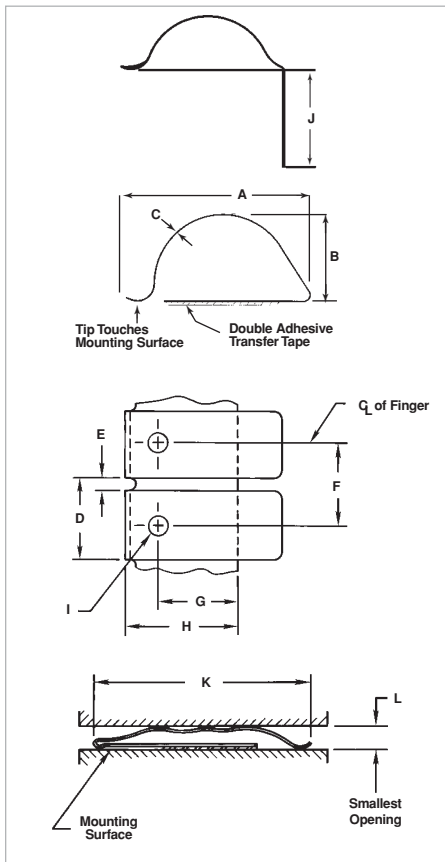
These versatile gaskets are made from high-performance beryllium copper with Sticky Fingers® self-adhesive backing. They provide an extremely tight, instant bond and are ideal as an all-purpose contact strip for metal cabinets and electronic enclosures, particularly where space is critical.

Magnetic field shielding effectiveness of these strips has been proven to be > 46 dB for a 14 kHz plane wave and 108 dB for a 10 GHz plane wave. When tested per MIL-STD-285 for electromagnetic shielding, these strips showed superior performance under minimum compression. They proved to be especially effective where variations exist in the space to be shielded and in applications that require high shielding performance despite frequent opening and closing of the cabinet.

Strips 97-500 and 97-538 are furnished in standard lengths of 24.000 in. (609.600 mm) and in continuous 25.0 ft. (7.6 m) coils. Series 97-520 and 97-540 are supplied in standard 16.000 in. (406.400 mm) lengths and in 25.0 ft. (7.6 m) coils. Strips 97-537, 97-535 and 97-545 are supplied in 12.000 in. (304.800 mm) lengths. All are available in your choice of finishes, see page 1-11. For load/deflection data, see page 2-33.

Please note that designated strips are available with Magnefil®, a rubber strip filled with magnetic absorbing particles and inserted within the curve of the fingers. Magnefil provides increased magnetic field shielding.

These 97-Series products are also available in UltraSoft® low compression force 98-Series.

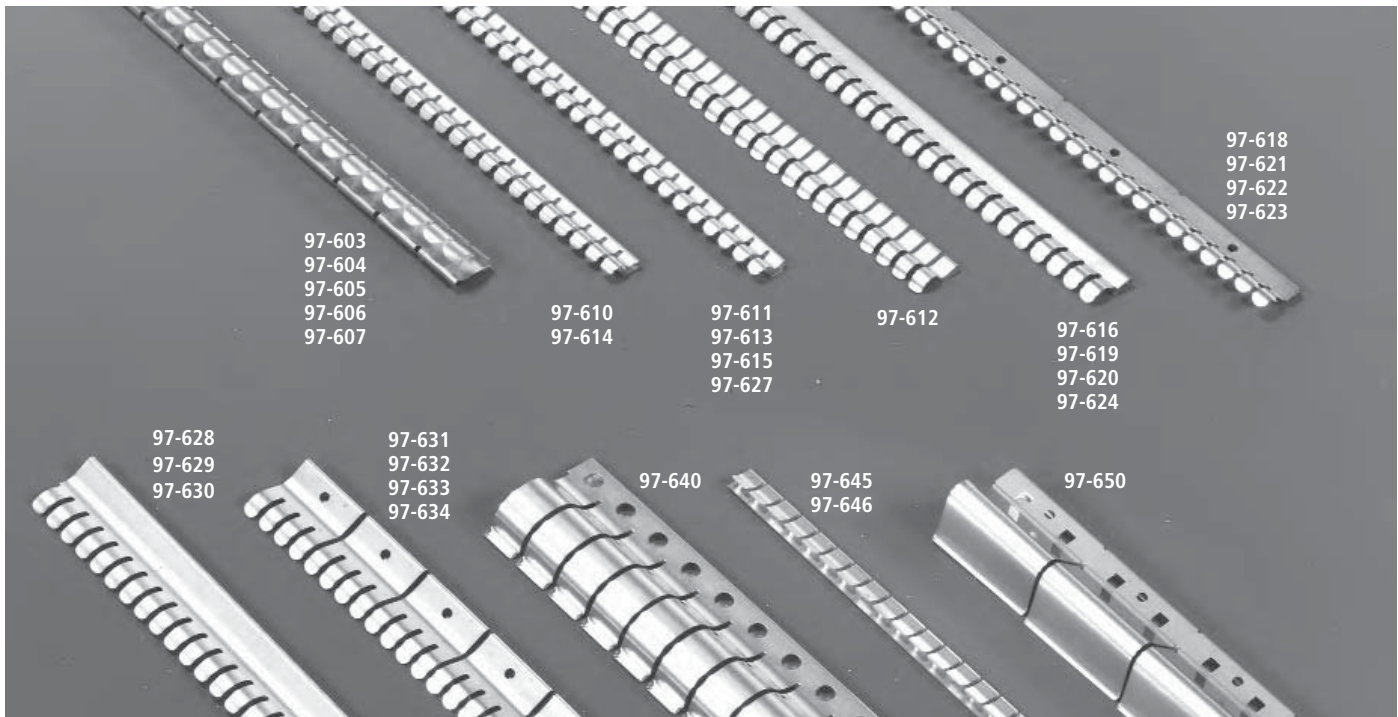


All dimensions shown are in inches (millimeters) unless otherwise specified.

ALL-PURPOSE SERIES

| SERIES | A MIN.            | B                 | C                | D                 | E                | F                 | G                 | H                 | I                | J                 | K                 | L                | APPROX. LENGTH      | APPROX. COIL FT (M) |
|--------|-------------------|-------------------|------------------|-------------------|------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|---------------------|---------------------|
| 97-500 | 0.600<br>(15.240) | 0.230<br>(5.842)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.032<br>(0.813) | 0.380<br>(9.652)  | 0.310<br>(7.874)  | 0.500<br>(12.700) | 0.080<br>(2.032) | N/A               | 0.770<br>(19.558) | 0.040<br>(1.016) | 24.000<br>(609.600) | 25.0<br>(7.6)       |
| 97-505 | 0.600<br>(15.240) | 0.230<br>(5.842)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.032<br>(0.813) | 0.380<br>(9.652)  | 0.310<br>(7.874)  | N/A               | 0.080<br>(2.032) | 0.500<br>(12.700) | 0.770<br>(19.558) | 0.040<br>(1.016) | 24.000<br>(609.600) | 25.0<br>(7.6)       |
| 97-510 | 0.600<br>(15.240) | 0.230<br>(5.842)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.032<br>(0.813) | 0.380<br>(9.652)  | 0.310<br>(7.874)  | 0.500<br>(12.700) | 0.080<br>(2.032) | N/A               | 0.770<br>(19.558) | 0.040<br>(1.016) | 24.000<br>(609.600) | 25.0<br>(7.6)       |
| 97-520 | 0.370<br>(9.398)  | 0.140<br>(3.556)  | 0.003<br>(0.076) | 0.250<br>(6.350)  | 0.022<br>(0.559) | 0.250<br>(6.350)  | 0.090<br>(2.286)  | 0.310<br>(7.874)  | 0.060<br>(1.524) | N/A               | 0.500<br>(12.700) | 0.070<br>(1.778) | 16.000<br>(406.400) | 25.0<br>(7.6)       |
| 97-525 | 0.370<br>(9.398)  | 0.140<br>(3.556)  | 0.003<br>(0.076) | 0.250<br>(6.350)  | 0.022<br>(0.559) | 0.250<br>(6.350)  | 0.090<br>(2.286)  | N/A               | 0.060<br>(1.524) | 0.320<br>(8.128)  | 0.500<br>(12.700) | 0.070<br>(1.778) | 16.000<br>(406.400) | 25.0<br>(7.6)       |
| 97-527 | 0.280<br>(7.112)  | 0.055<br>(1.397)  | 0.002<br>(0.051) | 0.125<br>(3.175)  | 0.025<br>(0.635) | N/A               | N/A               | 0.183<br>(4.648)  | N/A              | N/A               | 0.300<br>(7.620)  | 0.040<br>(1.016) | 16.000<br>(406.400) | N/A                 |
| 97-535 | 0.780<br>(19.812) | 0.250<br>(6.350)  | 0.005<br>(0.127) | 0.375<br>(9.525)  | 0.040<br>(1.016) | 0.380<br>(9.652)  | 0.380<br>(9.652)  | N/A               | 0.140<br>(3.556) | 0.480<br>(12.192) | 0.940<br>(23.876) | 0.080<br>(2.032) | 12.000<br>(304.800) | 25.0<br>(7.6)       |
| 97-536 | 0.670<br>(17.018) | 0.310<br>(7.874)  | 0.004<br>(0.102) | 0.375<br>(9.525)  | 0.040<br>(1.016) | 0.380<br>(9.652)  | 0.380<br>(9.652)  | 0.530<br>(13.462) | 0.140<br>(3.556) | N/A               | 0.940<br>(23.876) | 0.140<br>(3.556) | 24.000<br>(609.600) | 25.0<br>(7.6)       |
| 97-537 | 1.130<br>(28.702) | 0.410<br>(10.414) | 0.007<br>(0.178) | 0.500<br>(12.700) | 0.040<br>(1.016) | 0.500<br>(12.700) | 0.560<br>(14.224) | 0.780<br>(19.812) | 0.140<br>(3.556) | N/A               | 1.940<br>(49.276) | 0.100<br>(2.540) | 12.000<br>(304.800) | N/A                 |
| 97-538 | 0.780<br>(19.812) | 0.250<br>(6.350)  | 0.005<br>(0.127) | 0.375<br>(9.525)  | 0.040<br>(1.016) | 0.380<br>(9.652)  | 0.380<br>(9.652)  | 0.530<br>(13.462) | 0.140<br>(3.556) | N/A               | 0.940<br>(23.876) | 0.080<br>(2.032) | 24.000<br>(609.600) | 25.0<br>(7.6)       |
| 97-540 | 0.280<br>(7.112)  | 0.110<br>(2.794)  | 0.003<br>(0.076) | 0.188<br>(4.775)  | 0.018<br>(0.457) | 0.190<br>(4.826)  | 0.080<br>(2.032)  | 0.230<br>(5.842)  | 0.060<br>(1.524) | N/A               | 0.370<br>(9.398)  | 0.065<br>(1.651) | 16.000<br>(406.400) | 25.0<br>(7.6)       |
| 97-544 | 0.260<br>(6.604)  | 0.110<br>(2.794)  | 0.003<br>(0.076) | 0.188<br>(4.775)  | 0.018<br>(0.457) | 0.190<br>(4.826)  | 0.080<br>(2.032)  | N/A               | 0.060<br>(1.524) | 0.240<br>(6.096)  | 0.370<br>(9.398)  | 0.065<br>(1.651) | 16.000<br>(406.400) | 25.0<br>(7.6)       |
| 97-545 | 1.130<br>(28.702) | 0.410<br>(10.414) | 0.007<br>(0.178) | 0.500<br>(12.700) | 0.040<br>(1.016) | 0.500<br>(12.700) | 0.560<br>(14.224) | N/A               | 0.140<br>(3.556) | 0.750<br>(19.050) | 1.940<br>(49.276) | 0.100<br>(2.540) | 12.000<br>(304.800) | N/A                 |
| 97-548 | 0.780<br>(19.812) | 0.250<br>(6.350)  | 0.005<br>(0.127) | 0.375<br>(9.525)  | 0.040<br>(1.016) | 0.380<br>(9.652)  | 0.380<br>(9.652)  | 0.530<br>(13.462) | 0.140<br>(3.556) | N/A               | 0.940<br>(23.876) | 0.080<br>(2.032) | 24.000<br>(609.600) | 25.0<br>(7.6)       |





97-603  
97-604  
97-605  
97-606  
97-607

97-610  
97-614

97-611  
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97-627

97-612

97-616  
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97-624

97-618  
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97-622  
97-623

97-628  
97-629  
97-630

97-631  
97-632  
97-633  
97-634

97-640

97-645  
97-646

97-650

This series from Laird Technologies is designed for use where high temperature or other design considerations preclude the use of adhesive-mounted gasketing. Yet it provides the same shielding characteristics and effectiveness as on Sticky Fingers® mounted series. Clip-On Gaskets offer shielding effectiveness >100 dB for 100 MHz plane wave. All are available in your choice of finishes, see page 1-11. For load/deflection data, see pages 2-33.

These 97-Series products are also available in UltraSoft® low compression force 98-Series.

**SNAP-TITE® WITH "D" LANCE**

This configuration has been designed specifically to provide outstanding holding power. "D" lances snap into drilled or punched holes in the mounting surface to create a strong omni-directional grip with excellent conductivity.

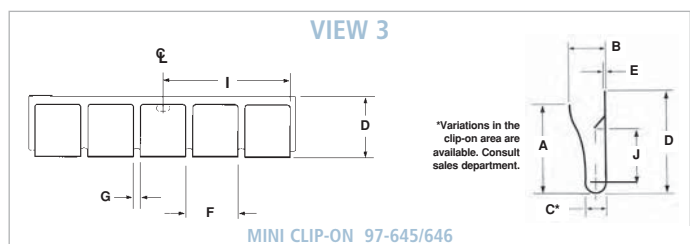
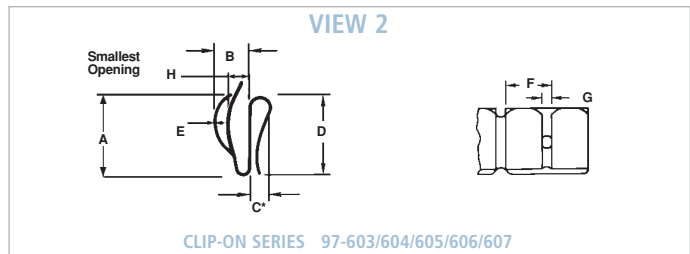
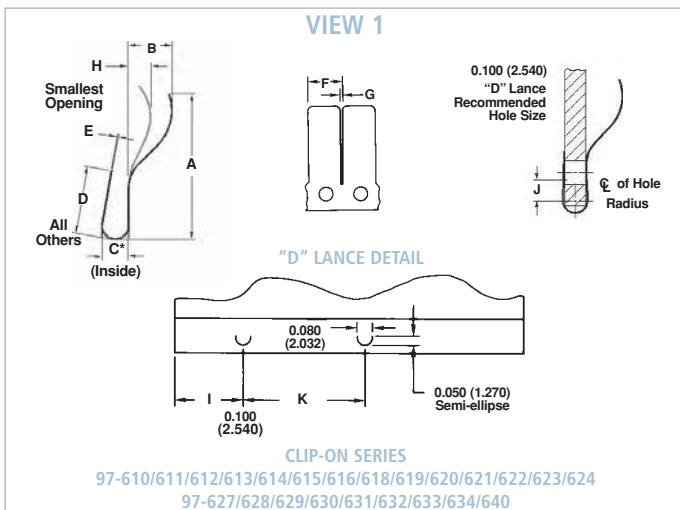
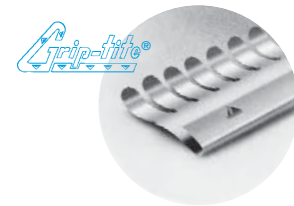
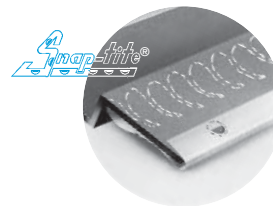
**GRIP-TITE® WITH "T" LANCE**

Ideal for use with softer materials, such as aluminum or plated plastic. "T" lances bite into the mounting surface and preserve electrical conductivity.

**MINI CLIP-ON**

Laird Technologies' Mini Clip-On (97-645/646) Gaskets are designed for use on today's thinner, lighter materials.

- Lowest compression force available in clip-on configuration
- Virtually no compression set – 100% recovery of original height at up to 60% compression
- "D" lance for extra holding power
- Optimum conductivity and mechanical properties of beryllium copper
- High cycle life – 50,000 cycles without fracture, wear, or compression set



All dimensions shown are in inches (millimeters) unless otherwise specified.

# FINGERSTOCK GASKETS AND METAL GROUNDING PRODUCTS CLIP-ON SERIES



## CLIP-ON SERIES

| VIEW | SERIES | A                 | B                 | C                | D                | E                | F                 | G                | H                | APPROX. LENGTH      | NO LANCE |   | SQUARE LANCE SQ | GRIP-TITE® "T" LANCE GT | SNAP-TITE® "D" LANCE ST | LANCE LOCATIONS DIMENSIONS |                  | LANCE TO LANCE DIMS. | BODY STYLE |   |
|------|--------|-------------------|-------------------|------------------|------------------|------------------|-------------------|------------------|------------------|---------------------|----------|---|-----------------|-------------------------|-------------------------|----------------------------|------------------|----------------------|------------|---|
|      |        |                   |                   |                  |                  |                  |                   |                  |                  |                     | NL       |   |                 |                         | I                       | J                          | K                | SLOT                 | SOL.       |   |
| 2    | 97-603 | 0.380<br>(9.652)  | 0.200<br>(5.080)  | 0.100<br>(2.540) | 0.330<br>(8.382) | 0.005<br>(0.127) | 0.250<br>(6.350)  | 0.040<br>(1.016) | 0.060<br>(1.524) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.250<br>(6.350)           | 0.099<br>(2.515) | 0.500<br>(12.700)    | X          | — |
| 2    | 97-604 | 0.330<br>(8.382)  | 0.280<br>(7.112)  | 0.070<br>(1.778) | 0.380<br>(9.652) | 0.005<br>(0.127) | 0.250<br>(6.350)  | 0.040<br>(1.016) | 0.100<br>(2.540) | 16.000<br>(406.400) | —        | — | —               | X                       | —                       | 0.230<br>(5.842)           | 0.204<br>(5.182) | 0.500<br>(12.700)    | X          | — |
| 2    | 97-605 | 0.380<br>(9.652)  | 0.200<br>(5.080)  | 0.070<br>(1.778) | 0.380<br>(9.652) | 0.005<br>(0.127) | 0.250<br>(6.350)  | 0.040<br>(1.016) | 0.060<br>(1.524) | 16.000<br>(406.400) | —        | — | —               | X                       | —                       | 0.230<br>(5.842)           | 0.204<br>(5.182) | 0.500<br>(12.700)    | X          | — |
| 2    | 97-606 | 0.380<br>(9.652)  | 0.200<br>(5.080)  | 0.070<br>(1.778) | 0.380<br>(9.652) | 0.005<br>(0.127) | 0.250<br>(6.350)  | 0.040<br>(1.016) | 0.060<br>(1.524) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.250<br>(6.350)           | 0.161<br>(4.089) | 0.500<br>(12.700)    | X          | — |
| 2    | 97-607 | 0.330<br>(8.382)  | 0.280<br>(7.112)  | 0.070<br>(1.778) | 0.380<br>(9.652) | 0.005<br>(0.127) | 0.250<br>(6.350)  | 0.040<br>(1.016) | 0.100<br>(2.540) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.250<br>(6.350)           | 0.161<br>(4.089) | 0.500<br>(12.700)    | X          | — |
| 1    | 97-610 | 0.300<br>(7.620)  | 0.100<br>(2.540)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.065<br>(1.651) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 1    | 97-611 | 0.300<br>(7.620)  | 0.100<br>(2.540)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.182<br>(4.623)  | 0.047<br>(1.194) | 0.060<br>(1.524) | 16.000<br>(406.400) | —        | — | —               | X                       | —                       | 0.364<br>(9.246)           | 0.062<br>(1.575) | 0.728<br>(18.491)    | X          | — |
| 1    | 97-612 | 0.440<br>(11.176) | 0.100<br>(2.540)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.003<br>(0.076) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.045<br>(1.143) | 16.000<br>(406.400) | #        | X | —               | —                       | —                       | 0.093<br>(2.362)           | 0.050<br>(1.270) | 0.750<br>(19.050)    | X          | — |
| 1    | 97-613 | 0.300<br>(7.620)  | 0.100<br>(2.540)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.182<br>(4.623)  | 0.047<br>(1.194) | 0.060<br>(1.524) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.364<br>(9.246)           | 0.054<br>(1.372) | 0.728<br>(18.491)    | X          | — |
| 1    | 97-614 | 0.300<br>(7.620)  | 0.100<br>(2.540)  | 0.050<br>(1.270) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.065<br>(1.651) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 1    | 97-615 | 0.297<br>(7.544)  | 0.100<br>(2.540)  | 0.050<br>(1.270) | 0.187<br>(4.750) | 0.005<br>(0.127) | 0.182<br>(4.623)  | 0.047<br>(1.194) | 0.050<br>(1.270) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.364<br>(9.246)           | 0.309<br>(7.849) | 0.728<br>(18.491)    | —          | X |
| 1    | 97-616 | 0.420<br>(10.668) | 0.120<br>(3.048)  | 0.100<br>(2.540) | 0.250<br>(6.350) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.095<br>(2.413) | 16.000<br>(406.400) | X        | — | —               | —                       | —                       | —                          | —                | —                    | —          | X |
| 1    | 97-618 | 0.420<br>(10.668) | 0.140<br>(3.556)  | 0.060<br>(1.524) | 0.210<br>(5.334) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.080<br>(1.778) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.500<br>(12.700)          | 0.065<br>(1.651) | 1.000<br>(25.400)    | —          | X |
| 1    | 97-619 | 0.440<br>(11.176) | 0.080<br>(2.032)  | 0.050<br>(1.270) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.045<br>(1.143) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 1    | 97-620 | 0.440<br>(11.176) | 0.080<br>(2.032)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.045<br>(1.143) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 1    | 97-621 | 0.440<br>(11.176) | 0.120<br>(3.048)  | 0.070<br>(1.778) | 0.230<br>(5.842) | 0.005<br>(0.127) | 0.193<br>(4.902)  | 0.046<br>(1.168) | 0.070<br>(1.778) | 16.000<br>(406.400) | —        | — | —               | X                       | —                       | 0.652<br>(16.561)          | 0.084<br>(2.134) | 1.351<br>(34.315)    | X          | — |
| 1    | 97-622 | 0.440<br>(11.176) | 0.120<br>(3.048)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.193<br>(4.902)  | 0.046<br>(1.168) | 0.075<br>(1.905) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.290<br>(7.366)           | 0.060<br>(1.524) | 0.725<br>(18.415)    | X          | — |
| 1    | 97-623 | 0.420<br>(10.668) | 0.080<br>(2.032)  | 0.070<br>(1.778) | 0.187<br>(4.750) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.045<br>(1.143) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.530<br>(13.462)          | 0.064<br>(1.626) | 1.000<br>(25.400)    | —          | X |
| 1    | 97-624 | 0.420<br>(10.668) | 0.140<br>(3.556)  | 0.060<br>(1.524) | 0.210<br>(5.334) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.080<br>(2.032) | 16.000<br>(406.400) | X        | — | —               | —                       | —                       | —                          | —                | —                    | —          | X |
| 1    | 97-627 | 0.297<br>(7.544)  | 0.099<br>(2.515)  | 0.070<br>(1.778) | 0.187<br>(4.750) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.049<br>(1.245) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.280<br>(7.112)           | 0.049<br>(1.245) | 0.748<br>(19.000)    | —          | X |
| 1    | 97-628 | 0.600<br>(15.240) | 0.210<br>(5.334)  | 0.100<br>(2.540) | 0.230<br>(5.842) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.070<br>(1.778) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 1    | 97-629 | 0.600<br>(15.240) | 0.210<br>(5.334)  | 0.050<br>(1.270) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.070<br>(1.778) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 1    | 97-630 | 0.600<br>(15.240) | 0.210<br>(5.334)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.187<br>(4.750)  | 0.047<br>(1.194) | 0.070<br>(1.778) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 1    | 97-631 | 0.600<br>(15.240) | 0.210<br>(5.334)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.182<br>(4.623)  | 0.047<br>(1.194) | 0.080<br>(2.032) | 16.000<br>(406.400) | —        | — | —               | X                       | —                       | 0.364<br>(9.246)           | 0.058<br>(1.473) | 0.728<br>(18.491)    | X          | — |
| 1    | 97-632 | 0.600<br>(15.240) | 0.210<br>(5.334)  | 0.070<br>(1.778) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.182<br>(4.623)  | 0.047<br>(1.194) | 0.080<br>(2.032) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.364<br>(9.246)           | 0.058<br>(1.473) | 0.728<br>(18.491)    | X          | — |
| 1    | 97-633 | 0.600<br>(15.240) | 0.210<br>(5.334)  | 0.050<br>(1.270) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.182<br>(4.623)  | 0.047<br>(1.194) | 0.080<br>(2.032) | 16.000<br>(406.400) | —        | — | —               | X                       | —                       | 0.364<br>(9.246)           | 0.058<br>(1.473) | 0.728<br>(18.491)    | X          | — |
| 1    | 97-634 | 0.600<br>(15.240) | 0.210<br>(5.334)  | 0.050<br>(1.270) | 0.190<br>(4.826) | 0.005<br>(0.127) | 0.182<br>(4.623)  | 0.047<br>(1.194) | 0.080<br>(2.032) | 16.000<br>(406.400) | —        | — | —               | —                       | X                       | 0.364<br>(9.246)           | 0.058<br>(1.473) | 0.728<br>(18.491)    | X          | — |
| 1    | 97-640 | 1.090<br>(27.686) | 0.260<br>(6.604)  | 0.070<br>(1.778) | 0.280<br>(7.112) | 0.005<br>(0.127) | 0.375<br>(9.525)  | 0.040<br>(1.016) | 0.060<br>(1.524) | 16.000<br>(406.400) | X        | — | —               | #                       | #                       | —                          | —                | —                    | —          | X |
| 3    | 97-645 | 0.210<br>(5.334)  | 0.070<br>(1.778)  | 0.045<br>(1.143) | 0.250<br>(6.350) | 0.003<br>(0.076) | 0.200<br>(5.080)  | 0.030<br>(0.762) | 0.010<br>(0.254) | 24.000<br>(609.600) | —        | — | —               | —                       | X                       | 0.485<br>(12.319)          | 0.133<br>(3.378) | 1.000<br>(25.400)    | X          | — |
| 3    | 97-646 | 0.275<br>(6.985)  | 0.080<br>(2.036)  | 0.040<br>(1.016) | 0.280<br>(7.112) | 0.006<br>(0.152) | 0.250<br>(6.350)  | 0.030<br>(0.762) | 0.030<br>(0.762) | 24.000<br>(609.600) | —        | — | —               | —                       | X                       | 0.500<br>(12.700)          | 0.143<br>(3.617) | 1.000<br>(25.400)    | —          | X |
| 1    | 97-650 | 0.980<br>(24.892) | 0.400<br>(10.160) | 0.200<br>(5.080) | 0.300<br>(7.620) | 0.004<br>(0.102) | 1.000<br>(25.400) | 0.030<br>(0.762) | 0.200<br>(5.080) | 16.000<br>(406.400) | #        | # | —               | —                       | —                       | 0.192<br>(4.877)           | 0.120<br>(3.048) | 0.486<br>(12.344)    | X          | — |

All dimensions shown are in inches (millimeters) unless otherwise specified.

X Standard

# Optional