

# SPRING-LINE® Beryllium-Copper Gaskets

## SPRING-LINE Beryllium-Copper Gaskets

SPRING-LINE beryllium-copper gaskets combine high levels of EMI shielding effectiveness with spring-finger wiping and low closure force properties. The high performance qualities of beryllium-copper – high tensile strength, excellent anti-corrosion properties, and superb electrical conductivity – make it an ideal material for EMI shielding over a broad frequency range.

SPRING-LINE shielding gaskets are available in bright tin, bright copper, and bright nickel finishes, and others upon request. Strips can be soft soldered or resistance welded without damage to their working surface. SPRING-LINE gaskets can be applied by edge mounting using integral clips, or by high tack, pressure-sensitive adhesive (provided on some versions).

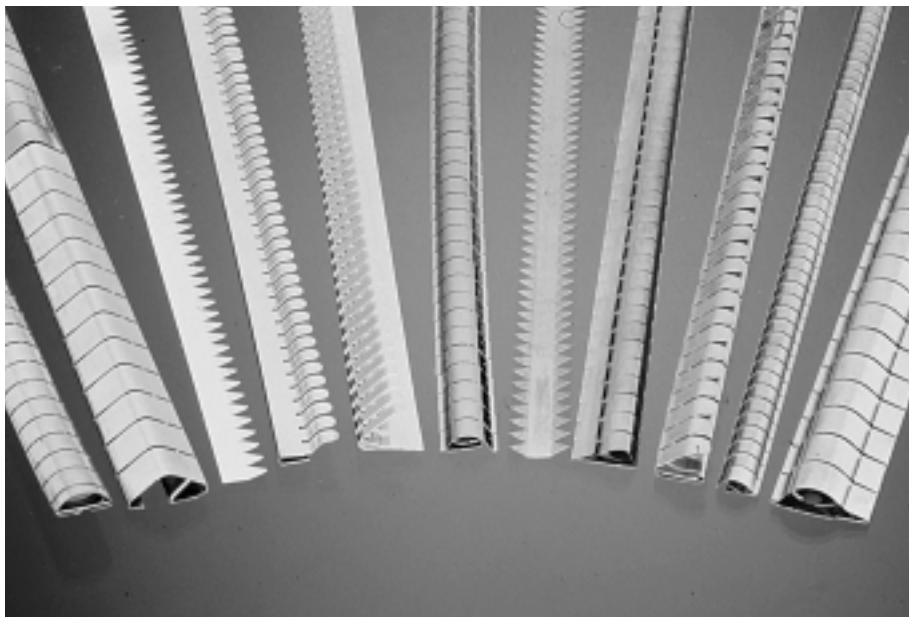


Table 1

MATERIAL SPECIFICATIONS – BERYLLIUM-COPPER ALLOY 25 AND PSA TAPE		
Chemical Composition	Mechanical and Electrical Properties	Pressure-Sensitive Adhesive Tape
Beryllium . . . . . 1.8-2.0%	Tensile strength . . . . 175 ksi min.	Acrylic adhesive
Cobalt plus Nickel . . 0.20% min.	Yield strength. . . . . 150 ksi min.	Service temperature range –55 to 230°C (–67 to 450°F)
Cobalt plus Nickel . . 0.60% max. plus Iron	Hardness . . . . . Rockwell C38-44	48 hour cure time with high peel and shear strength
Copper . . . . . Balance		High resistance to solvents
General plating . . . . 2 to 6 microns thickness approx. (excluding exotic metals)		Minimum 12-month PSA shelf life

Table 2

PLATING FINISH	RECOMMENDED MATING AND MOUNTING SURFACES
Bright Copper	Brass, Copper, Nickel-Copper Alloys, Monel, Stainless Steel, Silver
Bright Nickel (QQ-N-290)	Brass, Cadmium, Carbon Steel, Copper, Iron, Nickel, Stainless Steel, Tin
Bright Tin (MIL-T-10727)	Aluminum, Aluminum Alloys, Beryllium, Cadmium, Carbon Steel, Chromium, Nickel, Tin, Zinc

### Ordering Procedure

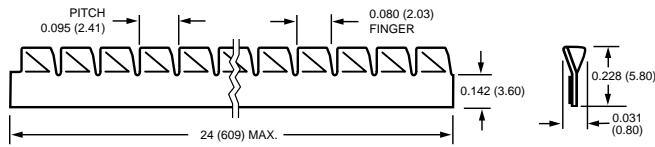
Standard SPRING-LINE gasket configurations are illustrated on the following six pages. Gaskets are supplied in 16 inch (40.6 cm) lengths, with the exception of configurations 11832 and 11833, which are supplied in 15 inch (38.1 cm) lengths. Strips can also be pre-cut to custom lengths. Use the following example for constructing SPRING-LINE gasket part numbers.

**Example: 81-02-11816-XXXX**

- 81 – designates Chomerics' SPRING-LINE product line
- 02 – designates PSA mounting tape (01 designates no PSA tape)
- 11816 – designates the specific gasket configuration
- XXXX – designates choice of plating finish:
  - 2000 = clean and bright (unplated)
  - 3000 = zinc plate per ASTM-B633, with clear chromate (color optional)
  - 4000 = bright nickel
  - 5000 = bright tin
  - 6000 = electroless nickel per MIL-C-26074, Class 1

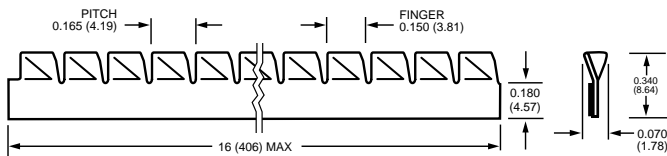
## TWIST SERIES

PART NO. 81-02-11818-XXXX



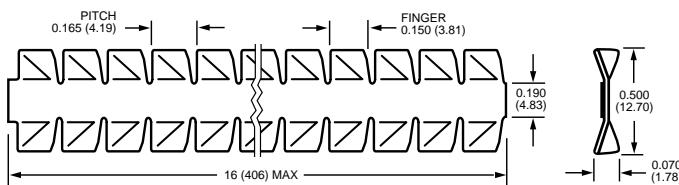
MTL THICKNESS 0.003 (0.076)

PART NO. 81-02-11817-XXXX



MTL THICKNESS 0.003 (0.076)

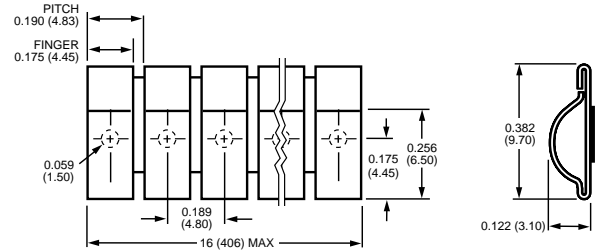
PART NO. 81-02-11816-XXXX



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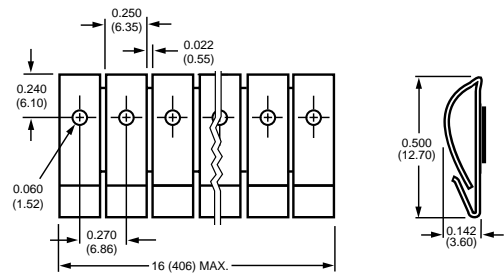
## FOLD OVER

PART NO. 81-02-11838-XXXX



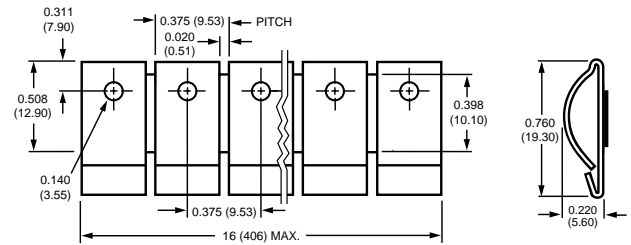
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PART NO. 81-02-11837-XXXX



MTL THICKNESS 0.003 (0.076)

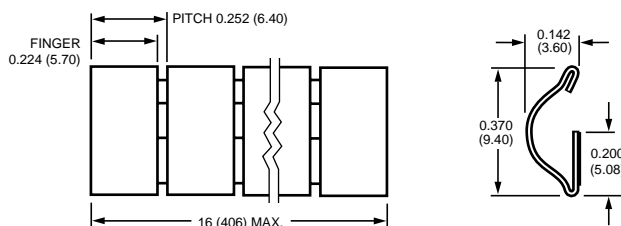
PART NO. 81-02-11836-XXXX



MTL THICKNESS 0.003 (0.076)

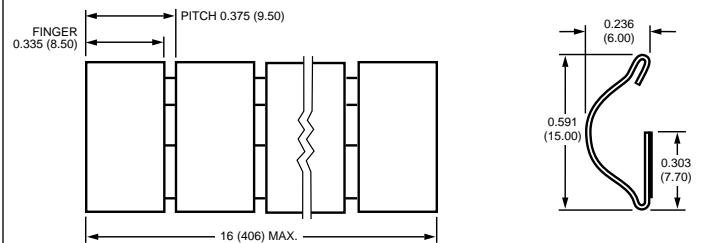
## NO SNAG

PART NO. 81-02-11822-XXXX



MTL THICKNESS 0.003 (0.076)

PART NO. 81-02-11821-XXXX



MTL THICKNESS 0.004 (0.100)

Note: Tool Diameter (0.075 in.) located under PSA

All dimensions are nominal. For applications where tolerances are critical, contact Chomerics' Applications Engineering Dept.

Additional configurations are available. Request information.

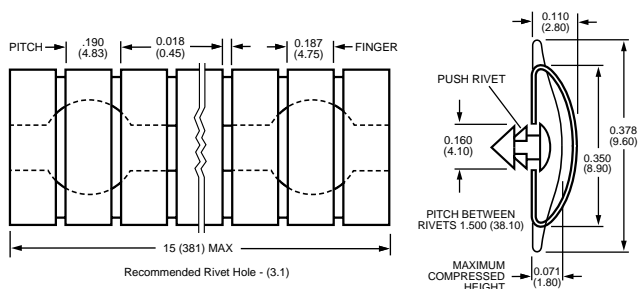
continued

(mm dimensions in parentheses)



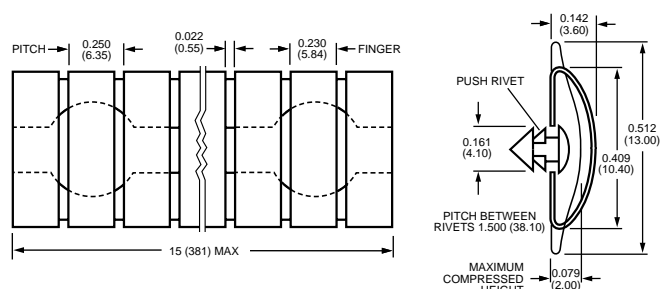
## RIVET & TRACK

**PART NO. 81-02-11833-XXXX**



MTL THICKNESS 0.003 (0.076)

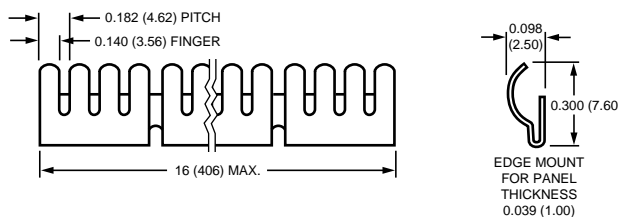
**PART NO. 81-02-11832-XXXX**



MTL THICKNESS 0.003 (0.076)

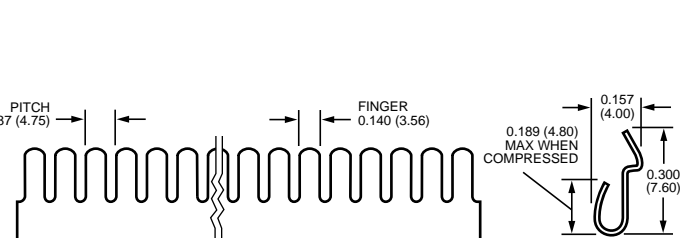
## EDGE MOUNT

**PART NO. 81-02-11831-XXXX**



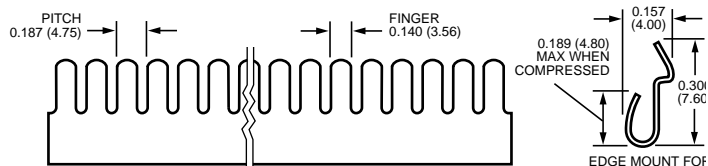
MTL THICKNESS 0.005 (0.127)  
Note: Tool Diameter (0.050 in.) located under PSA

**PART NO. 81-02-11828-XXXX**



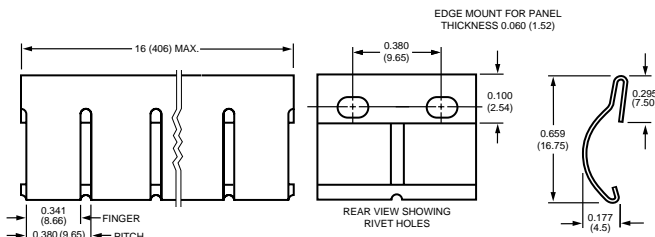
MTL THICKNESS 0.005 (0.127)

**PART NO. 81-02-11841-XXXX**



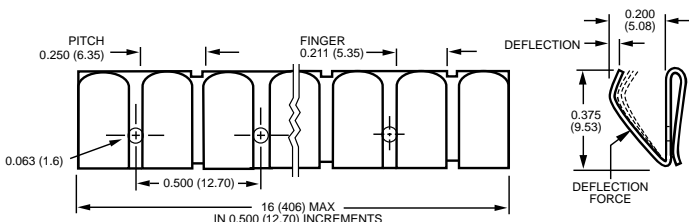
MTL THICKNESS 0.004 (0.100)

**PART NO. 81-02-11830-XXXX**



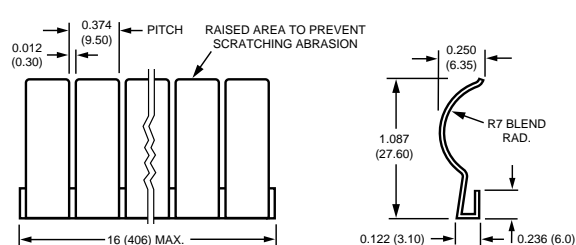
MTL THICKNESS 0.004 (0.100)

**PART NO. 81-02-11827-XXXX**



MTL THICKNESS 0.005 (0.127)

**PART NO. 81-02-11829-XXXX**



MTL THICKNESS 0.005 (0.127)

All dimensions are nominal. For applications where tolerances are critical, contact Chomerics' Applications Engineering Dept.

continued

Additional configurations are available. Request information.

(mm dimensions in parentheses)

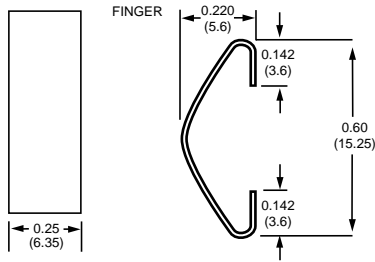


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**SLOT MOUNT**

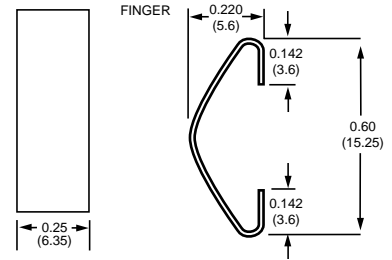
**PART NO. 81-01-14186-XXXX**



MTL THICKNESS 0.004 (0.100)

**PART NO. 81-01-14187-XXXX**

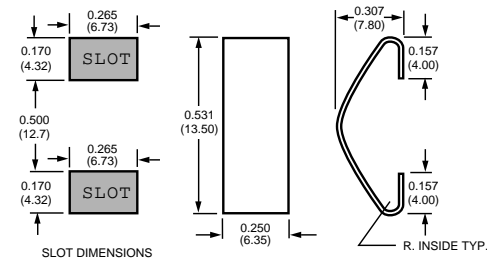
Note - available in single finger only



MTL THICKNESS 0.005 (0.127)

**PART NO. 81-02-11835-XXXX**

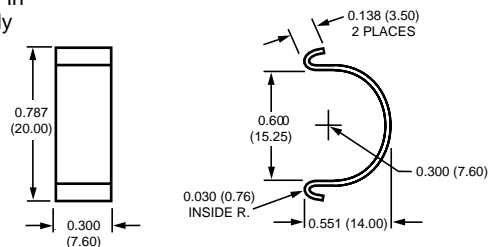
Note - available in single finger only



MTL THICKNESS 0.005 (0.127)

**PART NO. 81-02-11902-XXXX**

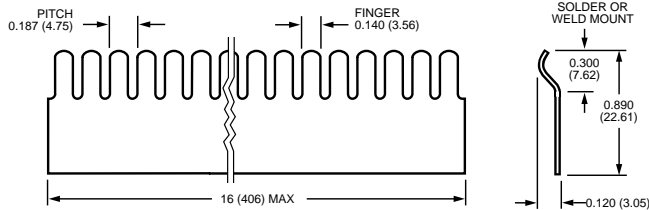
Note - available in single finger only



MTL THICKNESS 0.006 (0.152)

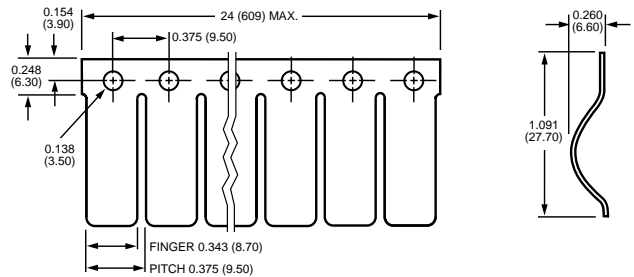
**LARGE ENCLOSURE**

**PART NO. 81-02-11839-XXXX**



MTL THICKNESS 0.004 (0.100)

**PART NO. 81-02-11901-XXXX**



MTL THICKNESS 0.005 (0.127)

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(mm dimensions in parentheses)