

# Metal EMI Gaskets Frame Gaskets and Strips

## EMI/EMP Frame Gaskets and Strips

These frame-mounted gaskets incorporate a length of MESH STRIP gasketing (with or without elastomer core), securely crimped into the edge of extruded aluminum mounting frames. They are available as ready-to-mount welded aluminum frames, fabricated lengths, or standard 7.5 ft.

\*Ferrex® is Chomerics' tin-plated, copper clad steel wire per ASTM B-520. ASTM (QQ-W-343) tin-plate, 2-3% by weight; ASTM B-227 copper-cladding 30-40% by weight; SAE 1010 steel wire, balance by weight.

lengths. In addition to allowing simple mechanical mounting, the aluminum frames function as positive compression stops, preventing over-compression of the gaskets. Frames can be supplied unfinished, chromate finished to MIL-C-5541, Class 3, and painted to customer specifications.

MESH STRIP gasketing may be inserted on both edges of the aluminum frame to provide two parallel shielding gaskets, or one MESH STRIP and one elastomer environmental seal can be provided.

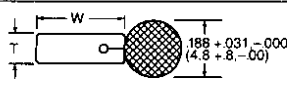
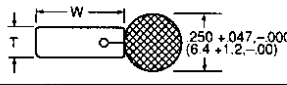
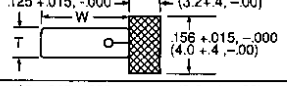
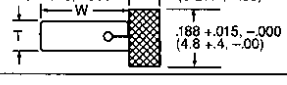
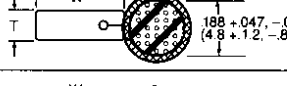

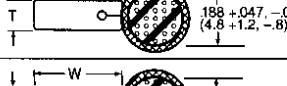
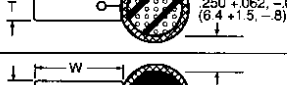

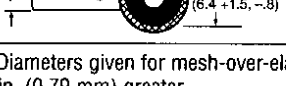
The extruded aluminum frame is easily attached to a flange surface

with spot welds, rivets, bolts, or sheet metal screws. The frame can serve as a load-bearing element in the structure, able to meet most shock and vibration requirements.

Standard EMI/EMP Frame Gaskets are available in Monel or Ferrex wire.\* (These gaskets should generally not be used in salt spray or ship-board environments. Both Monel and Ferrex mesh will cause galvanic corrosion of aluminum flanges. Silver-plated-aluminum filled elastomer gaskets are recommended on aluminum flanges in salt spray environments.)

Table 12

For a Chem-Film Finish per MIL-C-5541, Class 3 on the Aluminum frame, P/N to begin with: 06-2XXX-XXXX-XX

SINGLE EMI/EMP FRAME GASKETING									
EMI Gasketing			T	W	T	W	T	W	
Dimensions (See Note)	Gasket Description	EMI and EMP Material	0.093	0.375	0.093	0.437	0.125	0.312	
			(2.4)	(9.5)	(2.4)	(11.1)	(3.17)	(8.15)	
	Round Mesh Strip (.188 in. dia.)	Monel Ferrex	06-0100-6038-08 06-0100-6038-42	06-0100-6044-08 06-0100-6044-42	06-0100-6031-08 06-0100-6031-42				
	Round Mesh Strip (.250 in. dia.)	Monel Ferrex	06-0100-6038-03 06-0100-6038-43	06-0100-6044-03 06-0100-6044-43	06-0100-6031-03 06-0100-6031-43				
	Rectangular Mesh Strip (.156 in. high)	Monel Ferrex	06-0100-6038-04 06-0100-6038-48	06-0100-6044-04 06-0100-6044-48	06-0100-6031-04 06-0100-6031-48				
	Rectangular Mesh Strip (.188 in. high)	Monel Ferrex	06-0100-6038-02 06-0100-6038-49	06-0100-6044-02 06-0100-6044-49	06-0100-6031-02 06-0100-6031-49				
	Mesh over Neoprene Sponge Core (.188 in. dia.)	Monel Ferrex	06-0100-6038-10 06-0100-6038-44	06-0100-6044-10 06-0100-6044-44	06-0100-6031-10 06-0100-6031-44				
	Mesh over Neoprene Sponge Core (.250 in. dia.)	Monel Ferrex	06-0100-6038-12 06-0100-6038-46	06-0100-6044-12 06-0100-6044-46	06-0100-6031-12 06-0100-6031-46				
	Mesh over Silicone Sponge Core (.188 in. dia.)	Monel Ferrex	06-0100-6038-13 06-0100-6038-45	06-0100-6044-13 06-0100-6044-45	06-0100-6031-13 06-0100-6031-45				
	Mesh over Silicone Sponge Core (.250 in. dia.)	Monel Ferrex	06-0100-6038-16 06-0100-6038-47	06-0100-6044-16 06-0100-6044-47	06-0100-6031-16 06-0100-6031-47				
	Mesh over Hollow Tube Silicone (.188 in. dia.)	Monel Ferrex	06-0100-6038-89 06-0100-6038-88	06-0100-6044-89 06-0100-6044-88	06-0100-6031-89 06-0100-6031-88				
	Mesh over Hollow Tube Silicone (.250 in. dia.)	Monel Ferrex	06-0100-6038-91 06-0100-6038-90	06-0100-6044-91 06-0100-6044-90	06-0100-6031-91 06-0100-6031-90				

Note: Diameters given for mesh-over-elastomer gaskets apply only to the elastomer core. Outside diameters, including mesh covers, will be approximately 0.031 in. (0.79 mm) greater.

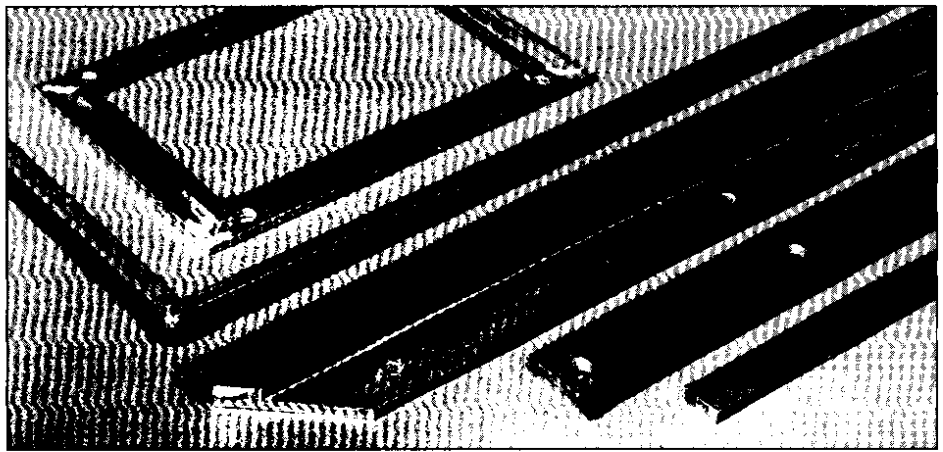
### Ordering Information

Select from Tables 12-15 the part number for the desired combination of cross section, mounting strip dimensions and gasket dimensions.

**Fabricated frames:** Select the style of frame required and submit a drawing indicating dimensions, hole diameters and hole locations.

**Note:** Holes should not be specified in the jaw area that clamps over the gasket.

**Fabricated lengths:** Supply a drawing indicating lengths required and location and diameter of holes.



**Standard strips:** Maximum length is 8 feet (244 cm). Standard length is 7.5 feet (229 cm). Shipped straight in shipping tubes or boxes.

*For further assistance in determining the most suitable combination of frame and gasketing for your application, consult Chomerics' Applications Engineering Department.*

### SINGLE EMI/EMP FRAME GASKETING *continued*

#### Aluminum Extrusion Mounting Strip—Thickness (T) and Width (W)

T	W	T	W	T	W	T	W	T	W	T	W	T	W
0.125 (3.17)	0.375 (9.52)	0.125 (3.17)	0.437 (11.1)	0.125 (3.17)	0.500 (12.7)	0.125 (3.17)	0.625 (15.8)	0.125 (3.17)	0.750 (19.0)	0.125 (3.17)	1.000 (25.4)	0.125 (3.17)	1.250 (31.7)
06-0100-6037-08 06-0100-6037-42	06-0100-6043-08 06-0100-6043-42	06-0100-6050-08 06-0100-6050-42	06-0100-6062-08 06-0100-6062-42	06-0100-6075-08 06-0100-6075-42	06-0100-6100-08 06-0100-6100-42	06-0100-6125-08 06-0100-6125-42							
06-0100-6037-03 06-0100-6037-43	06-0100-6043-03 06-0100-6043-43	06-0100-6050-03 06-0100-6050-43	06-0100-6062-03 06-0100-6062-43	06-0100-6075-03 06-0100-6075-43	06-0100-6100-03 06-0100-6100-43	06-0100-6125-03 06-0100-6125-43							
06-0100-6037-04 06-0100-6037-48	06-0100-6043-04 06-0100-6043-48	06-0100-6050-04 06-0100-6050-48	06-0100-6062-04 06-0100-6062-48	06-0100-6075-04 06-0100-6075-48	06-0100-6100-04 06-0100-6100-48	06-0100-6125-04 06-0100-6125-48							
06-0100-6037-02 06-0100-6037-49	06-0100-6043-02 06-0100-6043-49	06-0100-6050-02 06-0100-6050-49	06-0100-6062-02 06-0100-6062-49	06-0100-6075-02 06-0100-6075-49	06-0100-6100-02 06-0100-6100-49	06-0100-6125-02 06-0100-6125-49							
06-0100-6037-10 06-0100-6037-44	06-0100-6043-10 06-0100-6043-44	06-0100-6050-10 06-0100-6050-44	06-0100-6062-10 06-0100-6062-44	06-0100-6075-10 06-0100-6075-44	06-0100-6100-10 06-0100-6100-44	06-0100-6125-10 06-0100-6125-44							
06-0100-6037-12 06-0100-6037-46	06-0100-6043-12 06-0100-6043-46	06-0100-6050-12 06-0100-6050-46	06-0100-6062-12 06-0100-6062-46	06-0100-6075-12 06-0100-6075-46	06-0100-6100-12 06-0100-6100-46	06-0100-6125-12 06-0100-6125-46							
06-0100-6037-13 06-0100-6037-45	06-0100-6043-13 06-0100-6043-45	06-0100-6050-13 06-0100-6050-45	06-0100-6062-13 06-0100-6062-45	06-0100-6075-13 06-0100-6075-45	06-0100-6100-13 06-0100-6100-45	06-0100-6125-13 06-0100-6125-45							
06-0100-6037-16 06-0100-6037-47	06-0100-6043-16 06-0100-6043-47	06-0100-6050-16 06-0100-6050-47	06-0100-6062-16 06-0100-6062-47	06-0100-6075-16 06-0100-6075-47	06-0100-6100-16 06-0100-6100-47	06-0100-6125-16 06-0100-6125-47							
06-0100-6037-89 06-0100-6037-88	06-0100-6043-89 06-0100-6043-88	06-0100-6050-89 06-0100-6050-88	06-0100-6062-89 06-0100-6062-88	06-0100-6075-89 06-0100-6075-88	06-0100-6100-89 06-0100-6100-88	06-0100-6125-89 06-0100-6125-88							
06-0100-6037-91 06-0100-6037-90	06-0100-6043-91 06-0100-6043-90	06-0100-6050-91 06-0100-6050-90	06-0100-6062-91 06-0100-6062-90	06-0100-6075-91 06-0100-6075-90	06-0100-6100-91 06-0100-6100-90	06-0100-6125-91 06-0100-6125-90							

(mm dimensions in parentheses)

**Table 13**

## DOUBLE EMI/EMP FRAME GASKETING

Dimensions in Inches and (millimeters) (See Note)	Gasket Description	EMI/EMP Material	Aluminum Extrusion Mounting Strip — Thickness (T) and Width (W)								
			T		W		T		W		
			0.125 (3.2)	0.500 (12.7)	0.125 (3.2)	0.625 (15.9)	0.125 (3.2)	0.750 (19.1)	0.125 (3.2)	1.125 (28.6)	0.125 (3.2)
	Round Mesh Strip (.188 in. dia.)	Monel Ferrex	06-0100-7050-08 06-0100-7050-42	06-0100-7062-08 06-0100-7062-42	06-0100-7075-08 06-0100-7075-42	06-0100-7112-08 06-0100-7112-42	06-0100-7125-08 06-0100-7125-42				
	Round Mesh Strip (.250 in. dia.)	Monel Ferrex	06-0100-7050-03 06-0100-7050-43	06-0100-7062-03 06-0100-7062-43	06-0100-7075-03 06-0100-7075-43	06-0100-7112-03 06-0100-7112-43	06-0100-7125-03 06-0100-7125-43				
	Rectangular Mesh Strip (.156 in. high)	Monel Ferrex	06-0100-7050-04 06-0100-7050-48	06-0100-7062-04 06-0100-7062-48	06-0100-7075-04 06-0100-7075-48	06-0100-7112-04 06-0100-7112-48	06-0100-7125-04 06-0100-7125-48				
	Rectangular Mesh Strip (.188 in. high)	Monel Ferrex	06-0100-7050-02 06-0100-7050-49	06-0100-7062-02 06-0100-7062-49	06-0100-7075-02 06-0100-7075-49	06-0100-7112-02 06-0100-7112-49	06-0100-7125-02 06-0100-7125-49				
	Mesh over Neoprene Sponge (.188 in. dia.)	Monel Ferrex	06-0100-7050-10 06-0100-7050-44	06-0100-7062-10 06-0100-7062-44	06-0100-7075-10 06-0100-7075-44	06-0100-7112-10 06-0100-7112-44	06-0100-7125-10 06-0100-7125-44				
	Mesh over Neoprene Sponge (.250 in. dia.)	Monel Ferrex	06-0100-7050-12 06-0100-7050-46	06-0100-7062-12 06-0100-7062-46	06-0100-7075-12 06-0100-7075-46	06-0100-7112-12 06-0100-7112-46	06-0100-7125-12 06-0100-7125-46				
	Mesh over Silicone Sponge (.188 in. dia.)	Monel Ferrex	06-0100-7050-13 06-0100-7050-45	06-0100-7062-13 06-0100-7062-45	06-0100-7075-13 06-0100-7075-45	06-0100-7112-13 06-0100-7112-45	06-0100-7125-13 06-0100-7125-45				
	Mesh over Silicone Sponge (.250 in. dia.)	Monel Ferrex	06-0100-7050-16 06-0100-7050-47	06-0100-7062-16 06-0100-7062-47	06-0100-7075-16 06-0100-7075-47	06-0100-7112-16 06-0100-7112-47	06-0100-7125-16 06-0100-7125-47				
	Mesh over Hollow Silicone Tube (.188 in. dia.)	Monel Ferrex	06-0100-7050-89 06-0100-7050-88	06-0100-7062-89 06-0100-7062-88	06-0100-7075-89 06-0100-7075-88	06-0100-7112-89 06-0100-7112-88	06-0100-7125-89 06-0100-7125-88				
	Mesh over Hollow Silicone Tube (.250 in. dia.)	Monel Ferrex	06-0100-7050-91 06-0100-7050-90	06-0100-7062-91 06-0100-7062-90	06-0100-7075-91 06-0100-7075-90	06-0100-7112-91 06-0100-7112-90	06-0100-7125-91 06-0100-7125-90				

**Note:** Diameters given for mesh-over-elastomer gaskets apply only to the elastomer core. Outside diameters, including mesh covers, will be approximately 0.031 in. (0.79 mm) greater.

**Table 14**

## SINGLE EMI/EMP FRAME GASKETING PLUS SPONGE ELASTOMER WEATHER SEAL

Typical Cross Sections	Weather Seal Dimensions		Weather Seal Part Number				Aluminum Extrusion Mounting Strip Thickness, inches (mm)	HOW TO ORDER: 1. From Table 12, select the part number for the single EMI/EMP gasket configuration, material, and dimensions, and the desired mounting strip dimensions. 2. From this table, select the desired weather seal, according to material and dimensions. 3. In the part number selected from Table 12, remove "-0100-" and substitute the part number selected from this table.
	Height	Width	Neoprene		Silicone			
			Sponge	Solid	Sponge	Solid		
	0.125 + 0.031 -0.015 (3.2 + 0.8, -0.4)	0.125 + 0.031 -0.015 (3.2 + 0.8, -0.4)	-0191-	-0192-	-0101-	-0102-	0.093 (2.36)	
	0.125 + 0.031 -0.015 (3.2 + 0.8, -0.4)	0.188 ± 0.031 (4.8 ± 0.8)	-0111-	-0112-	-0121-	-0122-	0.093 (2.36)	
	0.156 ± 0.031 (4.0 ± 0.8)	0.125 + 0.031 -0.015 (3.2 + 0.8, -0.4)	-0110-	-0130-	-0120-	-0140-	0.125 (3.18)	
	0.188 ± 0.031 (4.8 ± 0.8)	0.188 ± 0.031 (4.8 ± 0.8)	-0131-	-0132-	-0141-	-0142-	0.125 (3.18)	
	0.250 ± 0.031 (6.4 ± 0.8)	0.188 ± 0.031 (4.8 ± 0.8)	-0151-	-0152-	-0161-	-0162-	0.125 (3.18)	
	0.250 ± 0.031 (6.4 ± 0.8)	0.250 ± 0.031 (6.4 ± 0.8)	-0171-	-0172-	-0181-	-0182-	0.125 (3.18)	

(mm dimensions in parentheses)

**Table 15**

SINGLE EMI/EMP FRAME GASKETING PLUS SOLID NEOPRENE OR SILICONE WEATHER SEAL				
Typical Cross Sections	Weather Seal Material	Mounting Strip Width	Mounting Strip Thickness	Part Number*
	Neoprene	0.500 (12.7)	0.125 (3.18)	06-0153-7050-ZZ
	Neoprene	0.625 (15.9)	0.125 (3.18)	06-0153-7062-ZZ
	Neoprene	0.750 (19.1)	0.125 (3.18)	06-0153-7075-ZZ
	Neoprene	1.125 (28.6)	0.125 (3.18)	06-0153-7112-ZZ
	Neoprene	1.250 (31.8)	0.125 (3.18)	06-0153-7125-ZZ
	Silicone	0.500 (12.7)	0.125 (3.18)	06-0163-7050-ZZ
	Silicone	0.625 (15.9)	0.125 (3.18)	06-0163-7062-ZZ
	Silicone	0.750 (19.1)	0.125 (3.18)	06-0163-7075-ZZ
	Silicone	1.125 (28.6)	0.125 (3.18)	06-0163-7112-ZZ
	Silicone	1.250 (31.8)	0.125 (3.18)	06-0163-7125-ZZ

**\*HOW TO ORDER:** Complete part number by substituting for "ZZ" the appropriate number from Table 16, according to gasket cross sections, dimensions and materials desired.

Neoprene Weather Seal complies with MIL-R-6855, Class II, Grade 40.

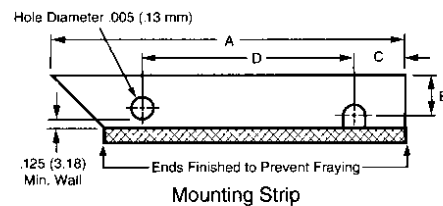
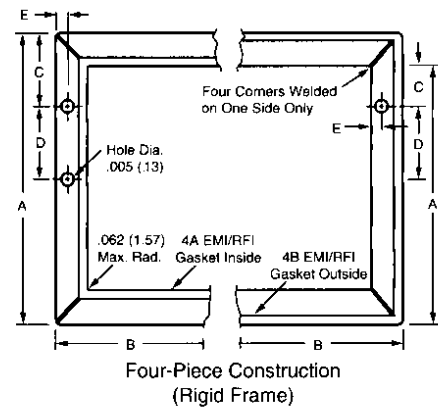
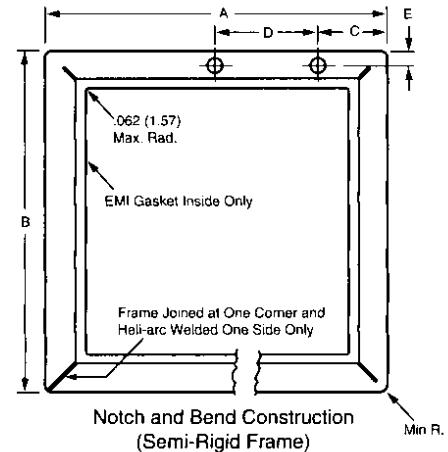
Silicone Weather Seal complies with MIL-R-5847, Class II, Grade 40 and with ZZ-R-765.

**Table 16**

EMI/EMP FRAME GASKETING, "ZZ" NUMBERS (See Table 15)			
EMI/EMP Gasket Construction	EMI/EMP Gasket (rubber core) Dimensions	EMI/EMP Material "ZZ" Number	
		Monel	Ferrex
All-Metal (circular)	0.188 dia. +0.031, -0.000 (4.8 dia. +0.79, -0.00)	-08	-42
	0.250 dia. +0.047, -0.00 (6.35 dia. +1.2, -0.00)	-03	-43
All-Metal (rectangular)	0.156 H x 0.125 W +0.015, -0.000 (4.0 H x 3.17 W +0.4, -0.00)	-04	-48
	0.188 H x 0.125 W +0.015, -0.000 (4.8 H x 3.17 W +0.4, -0.00)	-02	-49
**Neoprene Sponge Core (circular)	0.188 dia. +0.047, -0.031 (4.8 dia. +1.2, -0.8)	-10	-44
	0.250 dia. +0.062, -0.031 (6.35 dia. +1.6, -0.8)	-12	-46
**Silicone Sponge Core (circular)	0.188 dia. +0.047, -0.031 (4.8 dia. +1.2, -0.8)	-13	-45
	0.250 dia. +0.062, -0.031 (6.35 dia. +1.6, -0.8)	-16	-47
**Hollow Silicone Core	0.188 dia. ±0.031 (4.8 dia. ±0.79)	-89	-88
	0.250 dia. ±0.032 (6.35 dia. ±0.81)	-91	-90

\*\*Note: All EMI/EMP gaskets containing a rubber core will consist of two covers of mesh over the specified rubber core.

TOLERANCES FOR DIMENSIONS SHOWN IN FIGURES BELOW				
Dim.	0-12.0 (0-30.5 cm)	12.0-24.0 (30.5-61.0 cm)	24.0-36.0 (61.0-91.4 cm)	36.0-48.0 (91.4-121.9 cm)
A & B	±0.020 (0.51)	±0.030 (0.76)	±0.047 (1.19)	±0.062 (1.57)
C, D, & E	±0.010 (0.25)	±0.015 (0.38)	±0.025 (0.63)	±0.030 (0.76)



TOLERANCES FOR ALUMINUM EXTRUSION MOUNTING STRIP	
Width	Tolerances
<0.125 (3.18)	±0.006 (0.15)
0.125-0.249 (3.18-6.32)	±0.007 (0.18)
0.250-0.499 (6.35-12.67)	±0.008 (0.20)
0.500-0.749 (12.70-19.02)	±0.009 (0.23)
0.750-0.999 (19.05-25.37)	±0.010 (0.25)
1.0-1.499 (25.40-38.07)	±0.012 (0.30)

(mm dimensions in parentheses)