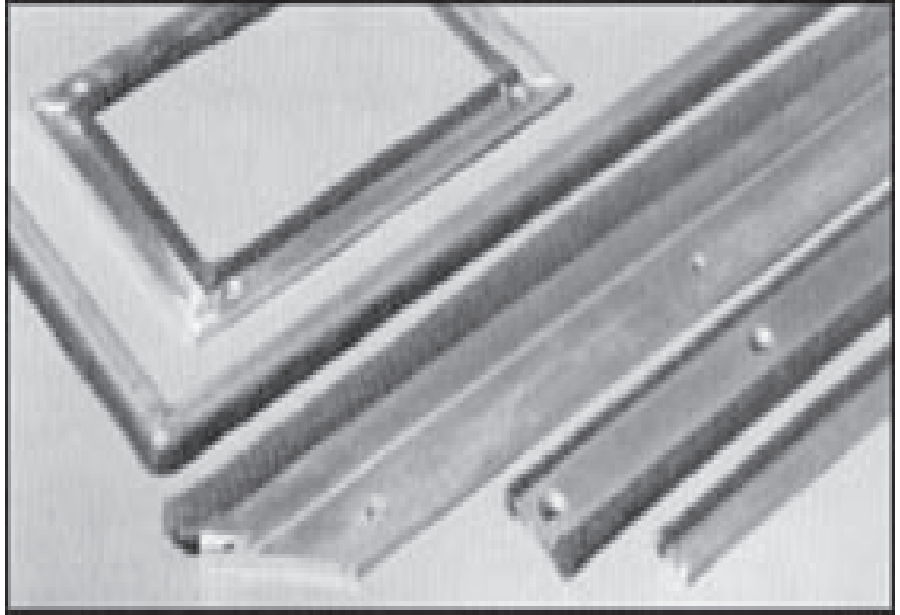


Metal EMI Frame Gaskets and Strips

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 picture frames, fabricated lengths, or standard 7.5 ft. 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-DTL-5541, Class 3, and painted to customer specifications.



Contact Information:

Parker Hannifin Corporation
Chomerics Division
77 Dragon Court
Woburn, MA 01801

phone 781 935 4850
fax 781 933 4318
chomailbox@parker.com

www.chomerics.com
www.parker.com/chomerics

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 shipboard environments. Both Monel and Ferrex mesh will cause galvanic corrosion of aluminum flanges. Silver-plated-aluminum filled elastomer gaskets are recommended for aluminum flanges in salt spray environments.)

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

Metal EMI Frame Gaskets and Strips - Available Profiles

ORDERING PROCEDURE

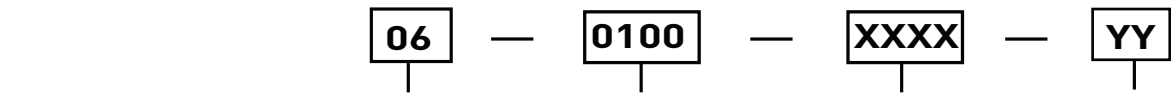
Order by part numbers listed in Tables 1-4 by replacing the XXXX-YY for the desired combination of cross section, mounting strip dimensions and gasket dimensions.

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.

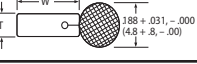
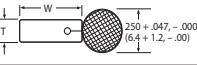
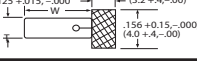
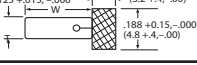
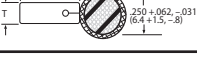
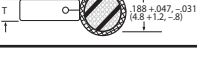
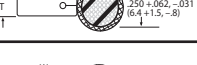
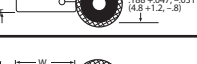
Standard strips: Maximum length is 8 feet (244 cm). Standard length is 7.5 feet (229 cm). Shipped straight in shipping tubes or boxes.

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



For a Chem-Film Finish per MIL-DTL-5541, Type 1, Class 3 on the Aluminum frame, part number to begin with 06-2XXX-XXXX-XX.

Table 1

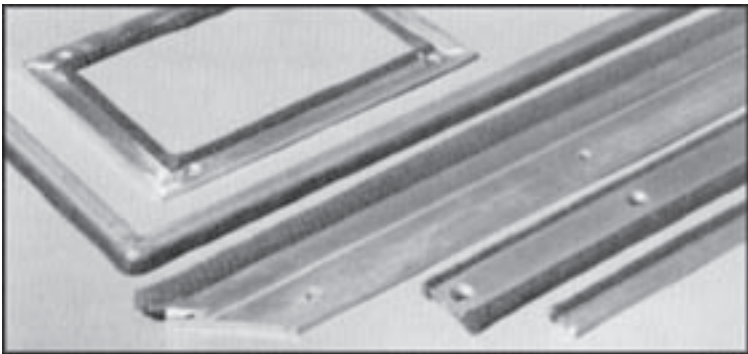
SINGLE EMI/EMP FRAME GASKETING inches (mm)																						
EMI Gasketing			Aluminum Extrusion Mounting Strip - Thickness (T) and Width (W)																			
Dimensions*	Gasket Description	EMI and EMP Mtr'l	T	W	T	W	T	W	T	W	T	W	T	W	T	W	T	W	T	W	T	W
			0.093 (2.4)	0.375 (9.5)	0.093 (2.4)	0.437 (11.1)	0.125 (3.17)	0.312 (8.15)	0.125 (3.17)	0.375 (9.5)	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)	0.1000 (25.4)	0.125 (3.17)	1.250 (31.7)
	Round Mesh Strip [.188 in. dia.]	Monel Ferrex	6038-08 6038-42		6044-08 6044-42		6031-08 6031-42		6037-08 6037-42		6043-08 6043-42		6050-08 6050-42		6062-08 6062-42		6075-08 6075-42		6100-08 6100-42		6125-08 6125-42	
	Round Mesh Strip [.250 in. dia.]	Monel Ferrex	6038-03 6038-43		6044-03 6044-43		6031-03 6031-43		6037-03 6037-43		6043-03 6043-43		6050-03 6050-43		6062-03 6062-43		6075-03 6075-43		6100-03 6100-43		6125-03 6125-43	
	Rectangular Mesh Strip [.156 in. high]	Monel Ferrex	6038-04 6038-48		6044-04 6044-48		6031-04 6031-48		6037-04 6037-48		6043-04 6043-48		6050-04 6050-48		6062-04 6062-48		6075-04 6075-48		6100-04 6100-48		6125-04 6125-48	
	Rectangular Mesh Strip [.188 in. high]	Monel Ferrex	6038-02 6038-49		6044-02 6044-49		6031-02 6031-49		6037-02 6037-49		6043-02 6043-49		6050-02 6050-49		6062-02 6062-49		6075-02 6075-49		6100-02 6100-49		6125-02 6125-49	
	Mesh over Neoprene Sponge Core [.188 in. dia.]	Monel Ferrex	6038-10 6038-44		6044-10 6044-42		6031-10 6031-44		6037-10 6037-44		6043-10 6043-44		6050-10 6050-44		6062-10 6062-44		6075-10 6075-44		6100-10 6100-44		6125-10 6125-44	
	Mesh over Neoprene Sponge Core [.250 in. dia.]	Monel Ferrex	6038-12 6038-46		6044-12 6044-46		6031-12 6031-46		6037-12 6037-46		6043-12 6043-46		6050-12 6050-46		6062-12 6062-46		6075-12 6075-46		6100-12 6100-46		6125-12 6125-46	
	Mesh over Silicone Sponge Core [.188 in. dia.]	Monel Ferrex	6038-13 6038-45		6044-13 6044-45		6031-13 6031-45		6037-13 6037-45		6043-13 6043-45		6050-13 6050-45		6062-13 6062-45		6075-13 6075-45		6100-13 6100-45		6125-13 6125-45	
	Mesh over Silicone Sponge Core [.250 in. dia.]	Monel Ferrex	6038-16 6038-47		6044-16 6044-47		6031-16 6031-47		6037-16 6037-47		6043-16 6043-47		6050-16 6050-47		6062-16 6062-47		6075-16 6075-47		6100-16 6100-47		6125-16 6125-47	
	Mesh over Hollow Tube Silicone [.188 in. dia.]	Monel Ferrex	6038-89 6038-88		6044-89 6044-88		6031-89 6031-88		6037-89 6037-88		6043-89 6043-88		6050-89 6050-88		6062-89 6062-88		6075-89 6075-88		6100-89 6100-88		6125-89 6125-88	
	Mesh over Hollow Tube Silicone [.250 in. dia.]	Monel Ferrex	6038-91 6038-90		6044-91 6044-90		6031-91 6031-90		6037-91 6037-90		6043-91 6043-90		6050-91 6050-90		6062-91 6062-90		6075-91 6075-90		6100-91 6100-90		6125-91 6125-90	

*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.



*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.

Metal EMI Frame Gaskets and Strips - Available Profiles



06 — 0100 — XXXX — YY

For a Chem-Film Finish per MIL-DTL-5541, Type 1, Class 3 on the Aluminum frame, part number to begin with 06-2XXX-XXXX-XX.

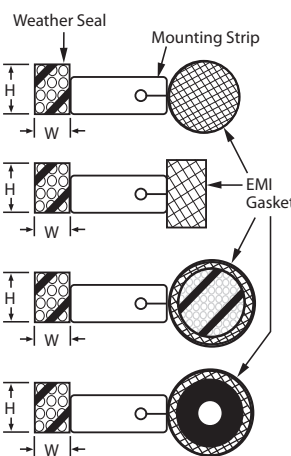
Table 2

DOUBLE EMI/EMP FRAME GASKETING inches (mm)												
EMI Gasketing			Aluminum Extrusion Mounting Strip - Thickness (T) and Width (W)									
Dimensions*	Gasket Description	EMI and EMP Mtr'l	T	W	T	W	T	W	T	W	T	W
			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)	0.125 (3.17)	0.125 (3.17)	1.250 (31.7)
	Round Mesh Strip [.188 in. dia.]	Monel Ferrex	7050-08 7050-42		7062-08 7062-42		7075-08 7075-42		7112-08 7112-42		7125-08 7125-42	
	Round Mesh Strip [.250 in. dia.]	Monel Ferrex	7050-03 7050-43		7062-03 7062-43		7075-03 7075-43		7112-03 7112-43		7125-03 7125-43	
	Rectangular Mesh Strip [.156 in. high]	Monel Ferrex	7050-04 7050-48		7062-04 7062-48		7075-04 7075-48		7112-04 7112-48		7125-04 7125-48	
	Rectangular Mesh Strip [.188 in. high]	Monel Ferrex	7050-02 7050-49		7062-02 7062-49		7075-02 7075-49		7112-02 7112-49		7125-02 7125-49	
	Mesh over Neoprene Sponge Core [.188 in. dia.]	Monel Ferrex	7050-10 7050-44		7062-10 7062-44		7075-10 7075-44		7112-10 7112-44		7125-10 7125-44	
	Mesh over Neoprene Sponge Core [.250 in. dia.]	Monel Ferrex	7050-12 7050-46		7062-12 7062-46		7075-12 7075-46		7112-12 7112-46		7125-12 7125-46	
	Mesh over Silicone Sponge Core [.188 in. dia.]	Monel Ferrex	7050-13 7050-45		7062-13 7062-45		7075-13 7075-45		7112-13 7112-45		7125-13 7125-45	
	Mesh over Silicone Sponge Core [.250 in. dia.]	Monel Ferrex	7050-16 7050-47		7062-16 7062-47		7075-16 7075-47		7112-16 7112-47		7125-16 7125-47	
	Mesh over Hollow Tube Silicone [.188 in. dia.]	Monel Ferrex	7050-89 7050-88		7062-89 7062-88		7075-89 7075-88		7112-89 7112-88		7125-89 7125-88	
	Mesh over Hollow Tube Silicone [.250 in. dia.]	Monel Ferrex	7050-91 7050-90		7062-91 7062-90		7075-91 7075-90		7112-91 7112-90		7125-91 7125-90	

*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.

Metal EMI Frame Gaskets and Strips - Available Profiles

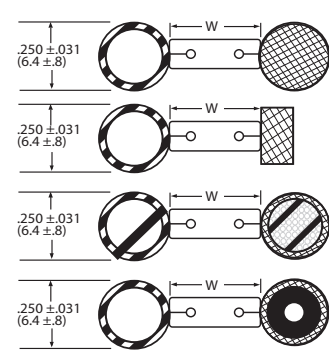
Table 3

SINGLE EMI/EMP FRAME GASKETING PLUS ELASTOMER WEATHER SEAL inches (mm)								
Typical Cross Sections	Weather Seal Dimensions		Weather Seal Part Number				Aluminum Extrusion Mounting Strip Thickness	HOW TO ORDER: 1. From Table 1, select the part number for the single EMI/EMP gasket configuration, material, and dimensions, and the desired mounting strips. 2. From this table select the desired weather seal, according to material and dimensions. 3. In the part number selected from Table 1, remove "-0100-" and substitute the part number selected from this table.
			Neoprene		Silicone			
	Height	Width	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)	

HOW TO ORDER:

1. From Table 1, select the part number for the single EMI/EMP gasket configuration, material, and dimensions, and the desired mounting strips.
2. From this table select the desired weather seal, according to material and dimensions.
3. In the part number selected from Table 1, remove "-0100-" and substitute the part number selected from this table.

Table 4

SINGLE EMI/EMP FRAME GASKETING PLUS ELASTOMER WEATHER SEAL inches (mm)				
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
		0.625 (15.9)		06-0153-7062-ZZ
		0.750 (19.1)		06-0153-7075-ZZ
		1.125 (28.6)		06-0153-7112-ZZ
		1.250 (31.8)		06-0153-7125-ZZ
	Silicone	0.500 (12.7)		06-0163-7050-ZZ
		0.625 (15.9)		06-0163-7062-ZZ
		0.750 (19.1)		06-0163-7075-ZZ
		1.125 (28.6)		06-0163-7112-ZZ
		1.250 (31.8)		06-0163-7125-ZZ
*HOW TO ORDER: Complete part number by substituting for “ZZ” the appropriate number from Table 5, 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.

Metal EMI Frame Gaskets and Strips - Product Information

Table 5

EMI/EMP FRAME GASKETING, "ZZ" NUMBERS (See Table 4) inches (mm)			
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 ±0.03 [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.

Table 6

TOLERANCES FOR DIMENSIONS SHOWN IN FIGURE 1 BELOW inches (mm)				
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]

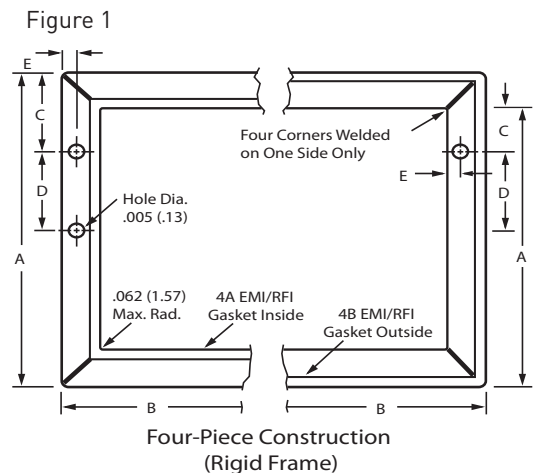
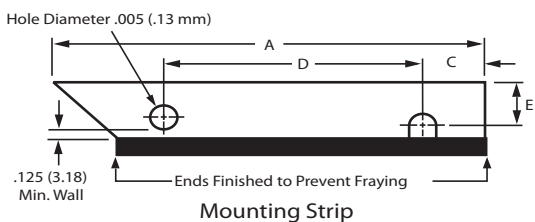


Table 7

TOLERANCES FOR ALUMINUM EXTRUSION MOUNTING STRIP FIGURE 2 BELOW inches (mm)	
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]

Figure 2



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