

EMI/RFI Shielded Rigid Frame Gasket (3000 Series)

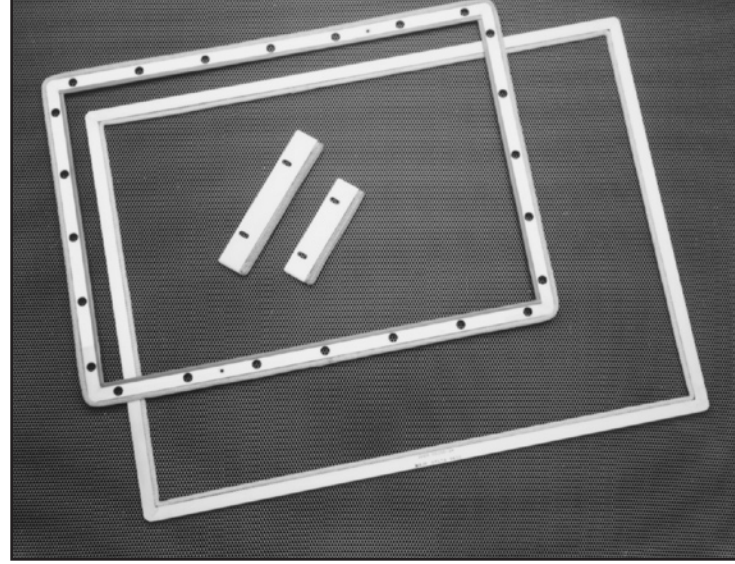
Rigid Mounting Frame EMI/RFI Gaskets consist of an aluminum extrusion with a specially designed jaw. When closed, the jaw crimps the fin of the knit wire EMI gasket to form a rigid construction with the EMI gasket held firmly in place.

This extrusion, when fabricated into a frame with the corners of aluminum extrusion mitered and heliarc welded, provides a gasket assembly that can be installed with flat-head screws. This design makes retrofitting in the field a relatively easy task and at the same time provides a positive stop for controlled compression of the EMI Gasket.

Rigid frame gasket is especially recommended for large cabinet doors or access panels that are frequently opened.

For applications requiring a moisture seal, an elastomer strip can be bonded to the edge of the extrusion opposite the gasket.

An added barrier to EMI/RFI interference can be achieved by utilizing a double-shielded construction. The double-shield gasket is recommended for large doors where controlling the mating surface joint unevenness can be difficult and expensive. A further consideration for utilizing the rigid frame approach is the load bearing support of extruded aluminum which aids in applications where shock and vibration are encountered.



Mounting

Rigid mounting frames, which provide a positive stop to prevent over-compression of shielded gaskets, can be mounted to the access cover or enclosure. Mounting to the access cover is the recommended method. This minimizes the possibility of damage to the EMI/RFI gasket during servicing when the cover is removed. Also mounting to the cover will add to the rigidity of the cover assembly.

Features

- **Proven Design:** EMI/RFI knitted wire gasketing has been the standard shielding product since its first use in 1944. Since that time, the product has been refined and new knit wire products have been introduced to the present state of the art products, all of which are currently manufactured at the modern facilities of MAJR Products.
- **Versatility of Materials:** MAJR provides the standard knit wire mesh in either monel, tin-plated ferrous, or knit mesh with elastomer core of neoprene or silicone sponge.
- **High EMI/RFI Attenuation Levels:** The highest possible attenuation levels are achievable with MAJR's EMI/RFI knitted wire gasketing. Attenuation levels beyond 110 dB in the E-Field and 65 dB in the H-Field are common with MAJR's shielding gasketing. Higher levels of attenuation are attainable with special materials and special design available through MAJR's engineering team.
- **Resilient Gasketing Material:** MAJR's knit wire gasketing material acts like thousands of tiny spring members which are compressed and released with each opening and closing of a cabinet door or enclosure cover. The spring-look gaskets assure long life with consistent point-to-point contact, providing high shielding effectiveness and long life.

Table 1

Single EMI/RFI Gasket

EMI/RFI Gasket Description			Knit Wire Mesh Round .18	Knit Wire Mesh Round .25	Knit Wire Mesh Rectangular	Knit Wire Mesh Rectangular	Knit Wire Over .18 D. Elastomer	Knit Wire Over .25 D. Elastomer
CROSS SECTION (FRAME)								
T	W	Shielding Material						
.093 (2.4) ¹	.375 (9.5)	Monel	3028-80009-31	3028-80020-31	3028-80064-31	3028-80053-31	3028-80031-31	3028-80042-31
		Tin-Plate Steel	3028-80009-34	3028-80020-34	3028-80064-34	3028-80053-34	3028-80034-34	3028-80042-34
.093 (2.4)	.437 (11.1)	Monel	3028-80010-31	3028-80021-31	3028-80065-31	3028-80054-31	3028-80032-31	3028-80043-31
		Tin-Plate Steel	3028-80010-34	3028-80021-34	3028-80065-34	3028-80054-34	3028-80032-34	3028-80043-34
.125 (3.17)	.375 (9.5)	Monel	3028-50011-31	3028-80022-31	3028-80066-31	3028-80055-31	3028-80033-31	3028-80044-31
		Tin-Plate Steel	3028-50011-34	3028-80022-34	3028-80066-34	3028-80055-34	3028-80033-34	3028-80044-34
.125 (3.17)	.437 (11.1)	Monel	3028-50012-31	3028-80023-31	3028-80067-31	3028-80056-31	3028-80034-31	3028-80045-31
		Tin-Plate Steel	3028-50012-34	3028-80023-34	3028-80067-34	3028-80056-34	3028-80034-34	3028-80045-34
.125 (3.17)	.500 (12.7)	Monel	3028-50013-31	3028-80024-31	3028-80068-31	3028-80057-31	3028-80035-31	3028-80046-31
		Tin-Plate Steel	3028-50013-34	3028-80024-34	3028-80068-34	3028-80057-34	3028-80035-34	3028-80046-34
.125 (3.17)	.625 (15.8)	Monel	3028-50014-31	3028-80025-31	3028-80069-31	3028-80058-31	3028-80036-31	3028-80047-31
		Tin-Plate Steel	3028-50014-34	3028-80025-34	3028-80069-34	3028-80058-34	3028-80036-34	3028-80047-34
.125 (3.17)	.750 (19.0)	Monel	3028-50015-31	3028-80026-31	3028-80070-31	3028-80059-31	3028-80037-31	3028-80048-31
		Tin-Plate Steel	3028-50015-34	3028-80026-34	3028-80070-34	3028-80059-34	3028-80037-34	3028-80048-34
.125 (3.17)	1.00 (25.4)	Monel	3028-50016-31	3028-80027-31	3028-80071-31	3028-80060-31	3028-80038-31	3028-80049-31
		Tin Plate Steel	3028-50016-34	3028-80027-34	3028-80071-34	3028-80060-34	3028-80038-34	3028-80049-34

Table 2

Double EMI/RFI Gasket

EMI/RFI Gasket Description			Knit Wire Mesh Round .18	Knit Wire Mesh Round .25	Knit Wire Mesh Rectangular	Knit Wire Mesh Rectangular	Knit Wire Over .18 D. Elastomer ²	Knit Wire Over .25 D. Elastomer ²
CROSS SECTION (FRAME)								
T	W	Shielding Material						
.125 (3.17)	.500 (12.7)	Monel	3028-50017-31	3028-50028-31	3028-50072-31	3028-50061-31	3028-50039-31	3028-50050-31
		Tin-Plate Steel	3028-50017-34	3028-50028-34	3028-50072-34	3028-50061-34	3028-50039-34	3028-50050-34
.125 (3.17)	.625 (15.8)	Monel	3028-50018-31	3028-50029-31	3028-50073-31	3028-50062-31	3028-50040-31	3028-50051-31
		Tin-Plate Steel	3028-50018-34	3028-50029-34	3028-50073-34	3028-50062-34	3028-50040-34	3028-50051-34
.125 (3.17)	.750 (19.0)	Monel	3028-50019-31	3028-50030-31	3028-50074-31	3028-50063-31	3028-50041-31	3028-50052-31
		Tin-Plate Steel	3028-50019-34	3028-50030-34	3028-50074-34	3028-50063-34	3028-50041-34	3028-50052-34

¹Dimensions are in inches and (metric)