

EMI/RFI Grounding Washers (2500 Series)

Product Summary

EMI/RFI grounding washers are manufactured from knitted wire mesh stocking that is formed into a resilient metal washer by compressing in a close-tolerance forming die. The grounding washer can be supplied in various diameters and thicknesses to satisfy the many requirements as indicated in the Applications shown in Figures 1 through 4.

Product Application

By varying the weight of the stocking mesh inserted into the compression die, the density of the washers can be varied, thus increasing or decreasing unit resilience, depending on the needs of the specific application. Washers with a metal density of 15 to 20 percent will "flow" under compression and thus will fill a gap or seam under minimal pressure (10 psi).

A grounding washer with a metal density of 30 to 40 percent provides a snug fit around a shaft or rod, but when compressed against the wall of a metal enclosure (as shown in Figure 3) will act as a slip-ring thus grounding the rotating shaft to enclosure. This eliminates the possibility of the shaft acting as an antenna to radiate or pick up unwanted noises. The all-metallic construction of the grounding washers that can be supplied in varying alloys makes them especially effective in hostile environments of temperature or chemicals.



Product Technical Data

Figures 1 through 4 show some of the possible mounting methods for grounding washers.

Figure 1
With Washer & Jam Nut

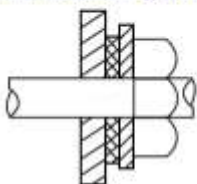


Figure 2
With Shaft Shoulder

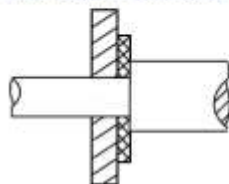


Figure 3
With Positive Stop Cup Washer

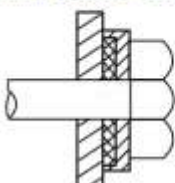
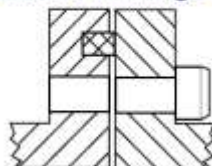


Figure 4
Mounted in Flange Groove



Features

- **Resiliency:** Grounding washers, when designed into applications that require recovery after the unit has been deflected, can be supplied in a resiliency that will return to 90 to 95 percent of free height after deflection of 25 percent.
- **All Metallic Construction:** For applications requiring grounding where the temperature and chemical environments are extreme, MAJR can supply grounding washers in a variety of wire types.

EMI/RFI Grounding Washers (2500 Series) (Cont.)

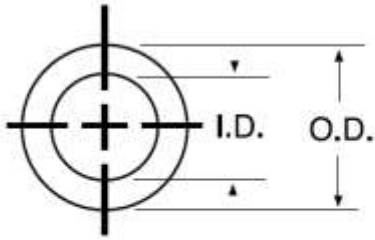


Table 2 shows washer sizes that can readily be supplied from existing tooling. Thickness can be varied from .032 to .125.

Tolerances

Table 2

Sizes	O.D.	I.D.
Up to 1 (Up to 25.40)	+0.015, -0.000 (+0.38)	+0.000, -0.015 (-0.38)
1 to 2 (25.40 to 50.80)	+0.020, -0.000 (+0.51)	+0.000, -0.020 (-0.51)
2 to 3 (50.80 to 76.20)	+0.025, -0.000 (+0.63)	+0.000, -0.025 (-0.63)
3 to 4 (76.20 to 101.60)	+0.030, -0.000 (+0.76)	+0.000, -0.030 (-0.76)
Over 4 (101.60)	+0.040, -0.000 (+1.02)	+0.000, -0.040 (-1.02)

Materials

Grounding washers can be supplied using knit wire mesh of the following materials:

Table 3

Code	Description
-31	Monel per QQ-N-281 Class A
-32	Aluminum
-33	Silver Plated Brass per QQ-W-321 (3% Silver by Weight)
-34	Tin Plated Copper Clad Steel per ASTM B520
-53	Beryllium Copper

Contact MAJR Products for standard O.D. and I.D. configurations

ISO-9001:2000 Certified - Veteran Owned Manufacturer

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