

INCH-POUND

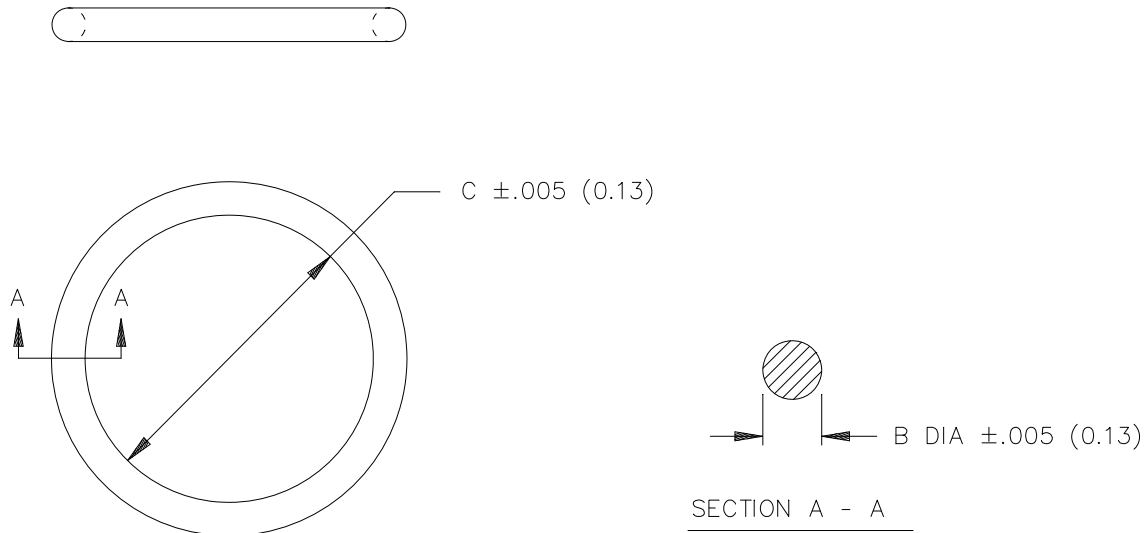
MIL-DTL-83528/2E  
7 November 2016  
SUPERSEDING  
MIL-DTL-83528/2D  
13 November 2012

## DETAIL SPECIFICATION SHEET

### GASKETING MATERIAL, CONDUCTIVE SHIELDING GASKET, ELECTRICAL, O-RING, STANDARD

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the gasketing material described herein shall  
consist of this specification and the latest issue of [MIL-DTL-83528](#).



#### NOTES:

1. Dimensions are in inches; metric equivalents are given in parenthesis and are for general information only.
2. Tolerance on flash shall be  $\pm 0.008$  (0.20 mm) on the extension and  $\pm 0.005$  (0.13 mm) on the thickness.

FIGURE 1. EMI/RFI O-ring gasket.



## REQUIREMENTS:

Design and interface: See [figure 1](#) and [table I](#). Gaskets described herein are conductive versions of O-rings covered by AS 3578.

Material: Type A, B, C, D, E, F, H, J, K, L, or M.

Part or Identifying Number (PIN): See [table I](#).

Supersession information: See [table II](#).

TABLE I. Dimensions.

PIN <a href="#">1/</a> M83528/002X	Dimension B <a href="#">2/</a> <a href="#">3/</a> <a href="#">4/</a>	Dimension C <a href="#">2/</a> <a href="#">4/</a> <a href="#">5/</a>	Cross section <a href="#">4/</a> area (cm <sup>2</sup> ) <a href="#">6/</a>
007	.070 (1.78)	.145 (3.68)	.025
011	.070 (1.78)	.301 (7.65)	.025
012	.070 (1.78)	.364 (9.25)	.025
013	.070 (1.78)	.426 (10.82)	.025
014	.070 (1.78)	.489 (12.42)	.025
015	.070 (1.78)	.551 (13.99)	.025
017	.070 (1.78)	.676 (17.17)	.025
018	.070 (1.78)	.739 (18.77)	.025
019	.070 (1.78)	.801 (20.34)	.025
020	.070 (1.78)	.864 (21.94)	.025
021	.070 (1.78)	.926 (23.52)	.025
022	.070 (1.78)	.989 (25.12)	.025
024	.070 (1.78)	1.114 (28.30)	.025
026	.070 (1.78)	1.239 (31.47)	.025
028	.070 (1.78)	1.364 (34.65)	.025
114	.103 (2.62)	.612 (15.54)	.054
115	.103 (2.62)	.676 (17.17)	.054
117	.103 (2.62)	.799 (20.29)	.054
126	.103 (2.62)	1.362 (34.59)	.054
128	.103 (2.62)	1.487 (37.77)	.054
132	.103 (2.62)	1.737 (44.12)	.054
134	.103 (2.62)	1.862 (47.30)	.054
142	.103 (2.62)	2.362 (59.99)	.054
145	.103 (2.62)	2.550 (64.77)	.054
155	.103 (2.62)	3.987 (101.27)	.054

[1/](#) "X" in the PIN shall be replaced by the applicable material type. Complete PIN example: M83528/002A007.

[2/](#) See [MIL-DTL-83528/5](#) for additional sizes.

[3/](#) Tolerance on dimension B shall be  $\pm .003$  for parts with a diameter of .070 and below;  $\pm .005$  for diameters from .101 to .200.

[4/](#) Dimensions are in inches; metric equivalents are given in parenthesis and are for general information only.

[5/](#) Tolerance on dimension C shall be  $\pm .010$  for parts from .000 to 1.500  $\pm .015$  for parts from over 1.500 to 2.500;  $\pm .020$  for parts from over 2.500 to 4.500.

[6/](#) For calculation of volume resistivity (for reference only).

TABLE II. Supersession information.

PIN <u>1/</u> M83528/002X	Superseded DESC drawing PIN 85105X <u>1/</u>
007	015
011	016
012	017
013	018
014	019
015	021
017	025
018	028
019	029
020	031
021	032
022	033
024	036
026	N/A
028	042
114	066
115	N/A
117	067
126	070
128	071
132	073
134	N/A
142	075
145	N/A
155	076

1/ "X" in the PIN indicates the applicable material type.

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents. In addition to [MIL-DTL-83528](#), this document references the following:  
[MIL-DTL-83528/5](#)

Custodians:  
Army – CR  
Navy – EC  
Air Force – 85  
DLA – CC

Preparing activity:  
DLA – CC  
  
(Project 5999-2016-007)

Review activities:  
Air Force – 19, 99  
NSA – NS

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil/>.