

INCH-POUND

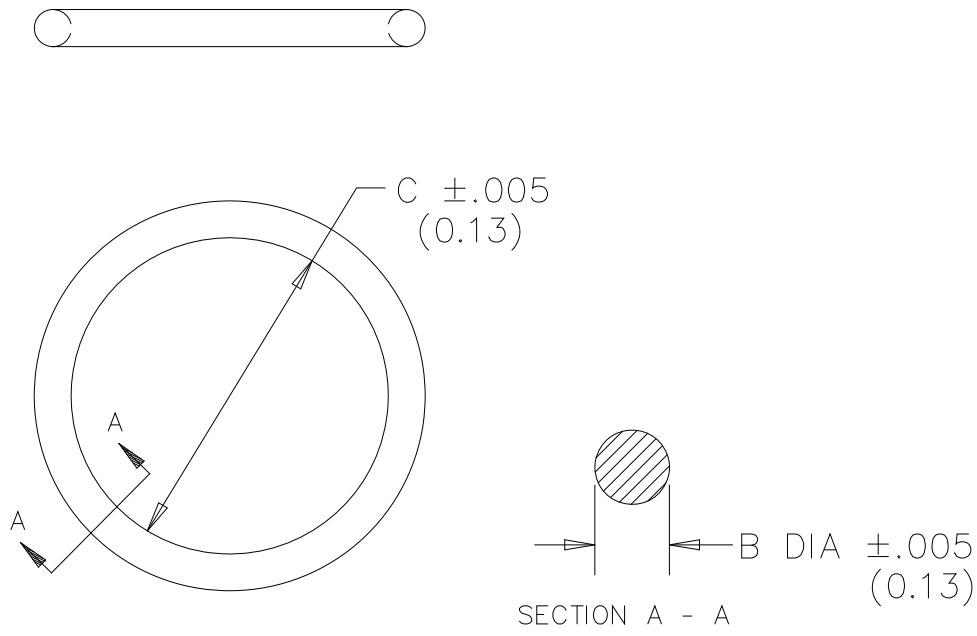
MIL-DTL-83528/5E  
15 August 2013  
SUPERSEDING  
MIL-DTL-83528/5D  
15 November 2001

# DETAIL SPECIFICATION SHEET

## GASKETING MATERIAL, CONDUCTIVE, SHIELDING GASKET, ELECTRONIC, ELASTOMER, EMI/RFI, O-RING, NON-STANDARD

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

The requirements for acquiring the relay described herein shall  
consist of this specification sheet 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  $\pm .008$  (0.20 mm) on the extension and  $\pm .005$  (0.13 mm) on the thickness.

FIGURE 1. EMI/RFI O-ring gasket.

## REQUIREMENTS:

Design and interface: See [figure 1](#) and [table I](#).

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](#). [6/](#)

PIN <a href="#">1/</a> M83528/005X	Dimension <a href="#">6/</a>		Cross Section Area (cm <sup>2</sup> ) <a href="#">5/</a>
	B <a href="#">2/ 3/</a>	C <a href="#">2/ 4/</a>	
001	.030 (.76)	.442 (11.23)	.0046
002	.030 (.76)	.577 (14.66)	.0046
003	.030 (.76)	.692 (17.58)	.0046
004	.030 (.76)	.817 (20.75)	.0046
005	.039 (.99)	.425 (10.80)	.0077
006	.048 (1.22)	.295 (7.49)	.0117
007	.050 (1.27)	.533 (13.54)	.0127
008	.051 (1.30)	.446 (11.33)	.0132
009	.057 (1.45)	.415 (10.54)	.0165
010	.063 (1.60)	.541 (13.74)	.0201
011	.063 (1.60)	.648 (16.46)	.0234
012	.068 (1.73)	.847 (21.51)	.0234
013	.068 (1.73)	1.182 (30.02)	.0234
014	.068 (1.73)	3.165 (80.39)	.0234
015	.070 (1.78)	.495 (12.57)	.0248
016	.070 (1.78)	.610 (15.49)	.0248
017	.070 (1.78)	.635 (16.13)	.0248
018	.070 (1.78)	.667 (16.94)	.0248
019	.070 (1.78)	.860 (21.84)	.0248
020	.070 (1.78)	1.230 (31.24)	.0248
021	.103 (2.62)	1.040 (26.42)	.0538
022	.103 (2.62)	1.612 (40.94)	.0538
023	.103 (2.62)	1.790 (45.47)	.0538

[1/](#) "X" in the PIN shall be replaced by the applicable material type. Complete PIN example: M38528/005A001.

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

[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/](#) 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.

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

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

TABLE II. Supersession information.

PIN M83528/005X	Superseded DESC Drawing PIN 85105X <u>1/</u> <u>2/</u>
001	001
002	002
003	003
004	004
005	005
006	006
007	007
008	008
009	009
010	010
011	011
012	012
013	013
014	014
015	020
016	022
017	023
018	024
019	030
020	038
021	068
022	072
023	074

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

2/ Dimensions of this part are not identical to the superseded part. However, this is an authorized substitution.

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-83528/2](#)

Custodian:

Army – CR

Navy – EC

Air Force – 85

DLA – CC

Preparing activity:

DLA – CC

(Project 5999-2013-013)

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/>.