

MIL-DTL-3922/62E
10 June 2019
SUPERSEDING
MIL-DTL-3922/62D
08 January 2010

DETAIL SPECIFICATION SHEET

FLANGES, WAVEGUIDE (CHOKE)
(ROUND, 8 HOLE (2 HOLES CENTERED HORIZONTALLY,
2 HOLES CENTERED VERTICALLY))

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

The requirements for acquiring the flanges described herein shall consist of this document and MIL-DTL-3922.

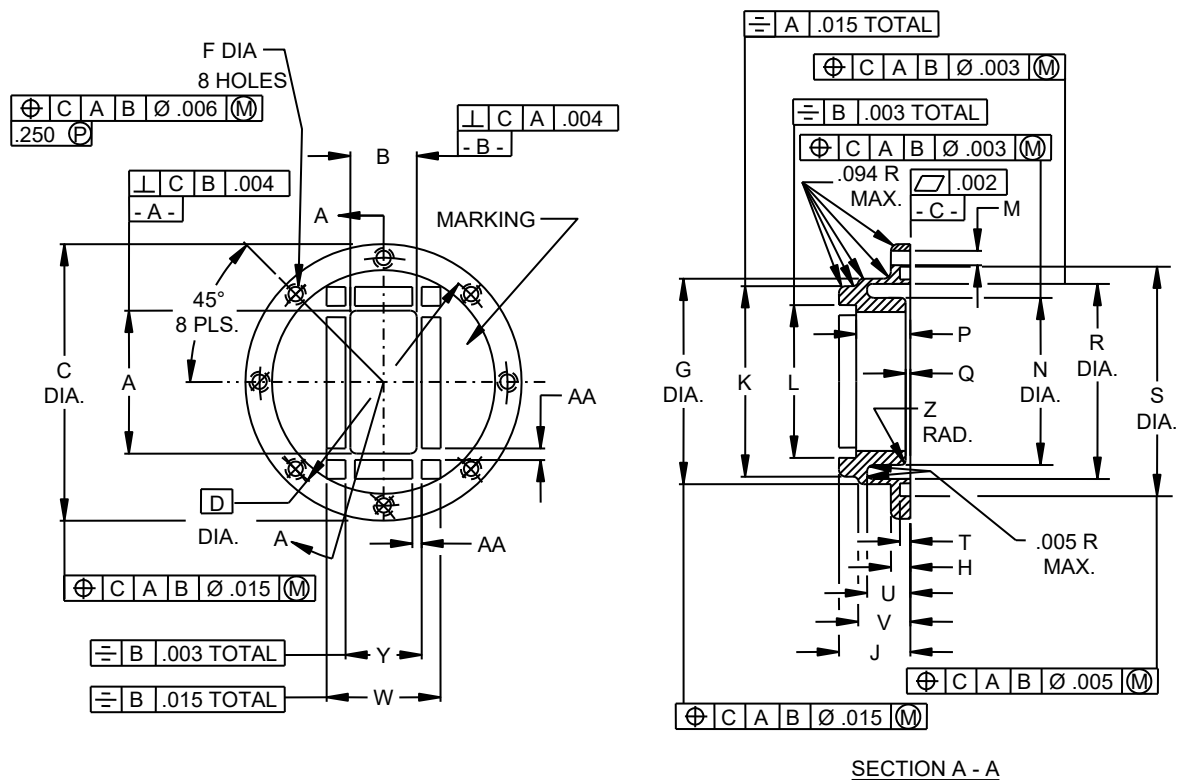
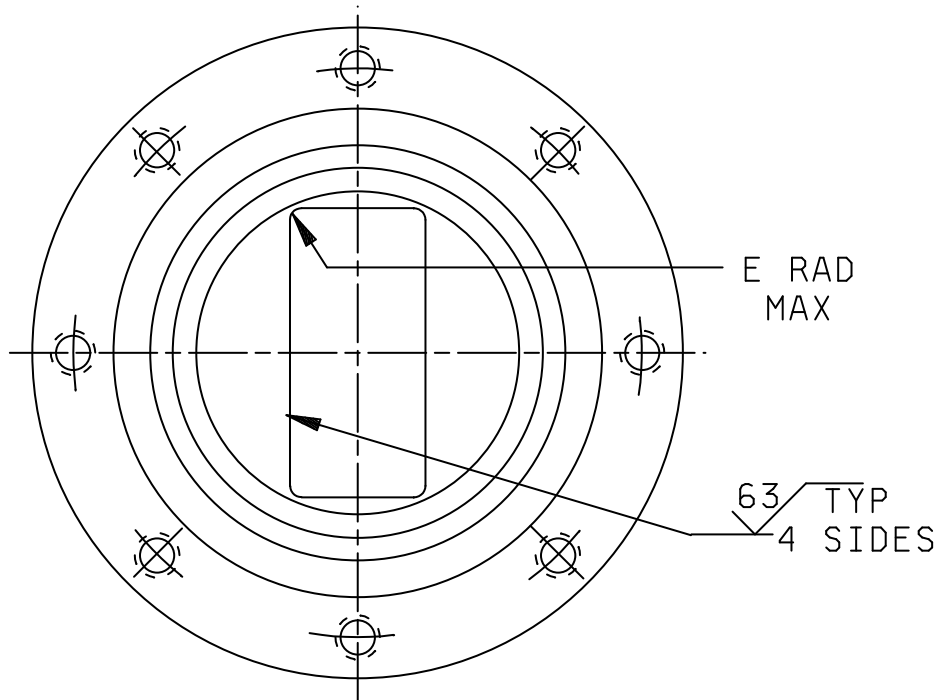


FIGURE 1. Flange configuration.





Inches	mm
.002	0.05
.003	0.08
.004	0.10
.005	0.13
.015	0.38
.094	2.39
.250	6.35

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1.00 inch = 25.4 mm.
4. Roughness of mating surfaces, including seal groove, shall not exceed 63 microinches in accordance with ASME-B46.1, except that flaws shall be included in the roughness height measurement.

FIGURE 1. Flange configuration - Continued.

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TABLE I. Dash number and dimensions.

PIN M3922/62-			Dimensions					
Dash no.	Used with		A	B	C	D	E	F
	Waveguide M85/1-	Mating flange M3922/57-	$\pm .005$ (0.13)	$\pm .005$ (0.13)	$\pm .015$ (0.38)	BSC	Max	
001 <u>2</u> /	053	001	1.872 (47.55)	.872 (22.15)	3.625 (92.08)	3.250 (82.55)	.016 (0.41)	.190-32 UNF-2A
002 <u>3</u> /	055	002	1.872 (47.55)	.872 (22.15)	3.625 (92.08)	3.250 (82.55)	.016 (0.41)	.190-32 UNF-2A

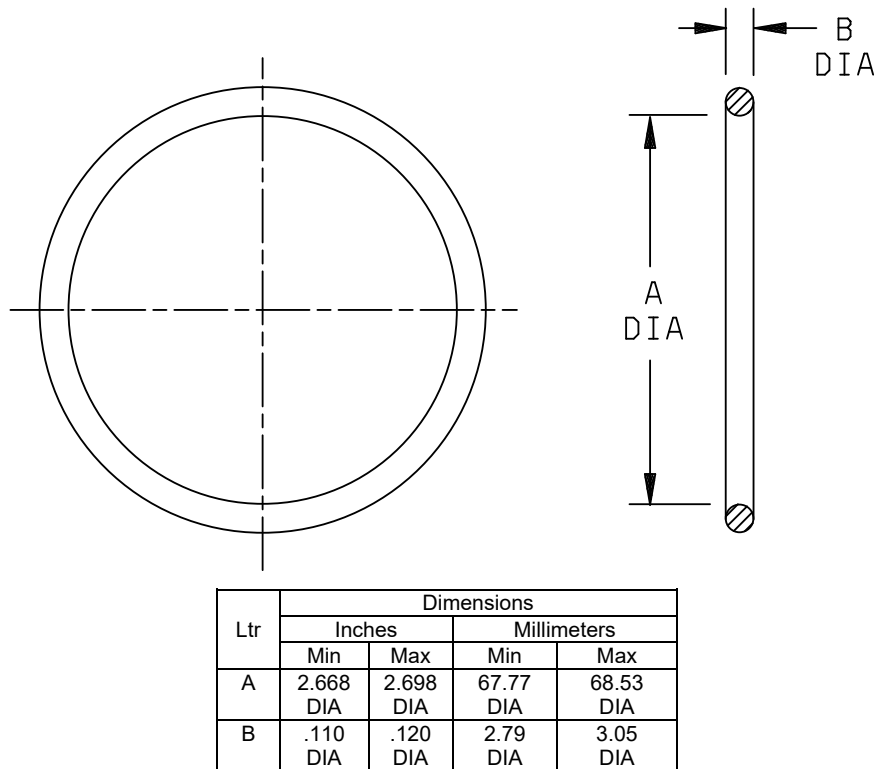
Dash no.	Dimensions								
	G $\pm .016$ (0.41)	H $\pm .015$ (0.38)	J $+ .015$ (0.38) $- .016$ (0.41)	K $\pm .015$ (0.38)	L $+ .003$ (0.08) $- .000$ (0.00)	M $\pm .005$ (0.13)	N $\pm .003$ (0.08)	P $\pm .005$ (0.13)	Q $\pm .001$ (0.03)
001 <u>2</u> /	2.750 (69.85)	.250 (6.35)	.938 (23.83)	2.500 (63.50)	2.002 (50.85)	.168 (4.27)	2.190 (55.63)	.687 (17.45)	.025 (0.64)
002 <u>3</u> /	2.750 (69.85)	.250 (6.35)	.938 (23.83)	2.500 (63.50)	2.005 (50.93)	.168 (4.27)	2.190 (55.63)	.687 (17.45)	.025 (0.64)

Dash no.	Dimensions								
	R $\pm .003$ (0.08)	S $\pm .005$ (0.13)	T $\pm .005$ (0.13)	U $\pm .003$ (0.08)	V $\pm .015$ (0.38)	W $\pm .015$ (0.38)	Y $\pm .003$ (0.08)	Z $\pm .005$ (.13)	AA $\pm .015$ (0.38)
001 <u>2</u> /	2.556 (64.92)	3.019 (76.68)	.083 (2.11)	.570 (14.48)	.687 (17.45)	1.500 (38.10)	1.002 (25.45)	.060 (1.52)	.094 (2.39)
002 <u>3</u> /	2.556 (64.92)	3.019 (76.68)	.083 (2.11)	.570 (14.48)	.687 (17.45)	1.500 (38.10)	1.002 (25.45)	.060 (1.52)	.094 (2.39)

1/ Dimensions are in inches (millimeters are in parentheses).

2/ Aluminum alloy.

3/ Copper alloy.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Gasket used with flanges M3922/62-001 and M3922/62-002.
4. Formerly MS PIN MS90064-16.

FIGURE 2. Gasket dimensions and configuration.TABLE II. Materials supplied with flange.

Item	Description	Quantity
Gasket -----	Silicone rubber (see figure 2)	1
Socket-head cap screw -----	.190-32, UNF-2A, .625 inch (15.88 mm) long	8
Lockwasher -----	#10-.047 inch (1.19 mm) thick	8

REQUIREMENTS:

Dimensions and configuration:

Flange: See figure 1 and table I.

Gasket: See figure 2.

Material: Metallic alloy as specified in table I.

Materials supplied with flange: See table II.

Marking: See figure 1.

Part or Identifying Number (PIN): M3922/62- (dash number from table I).

TABLE III. Cross-reference and engineering information.

PIN M3922/62-	AN nomenclature	Frequency range (GHz)
001	UG-406B/U	3.95 - 5.85
002	UG-148C/U	3.95 - 5.85

Referenced documents. In addition to MIL-DTL-3922, this specification sheet references the following documents:
ASME-B46.1

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.

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

Preparing activity:
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(Project 5985-2019-008)

Review activities:
Army - AV, MI
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