

MIL-DTL-3922/60D
23 July 2013
SUPERSEDING
MIL-DTL-3922/60C
27 May 2008

FLANGES, WAVEGUIDE (CHOKE)
(ROUND, 6 HOLE)

INACTIVE FOR NEW DESIGN
AFTER 18 SEPTEMBER 1998

The technical drawing consists of two main views of a mechanical component.

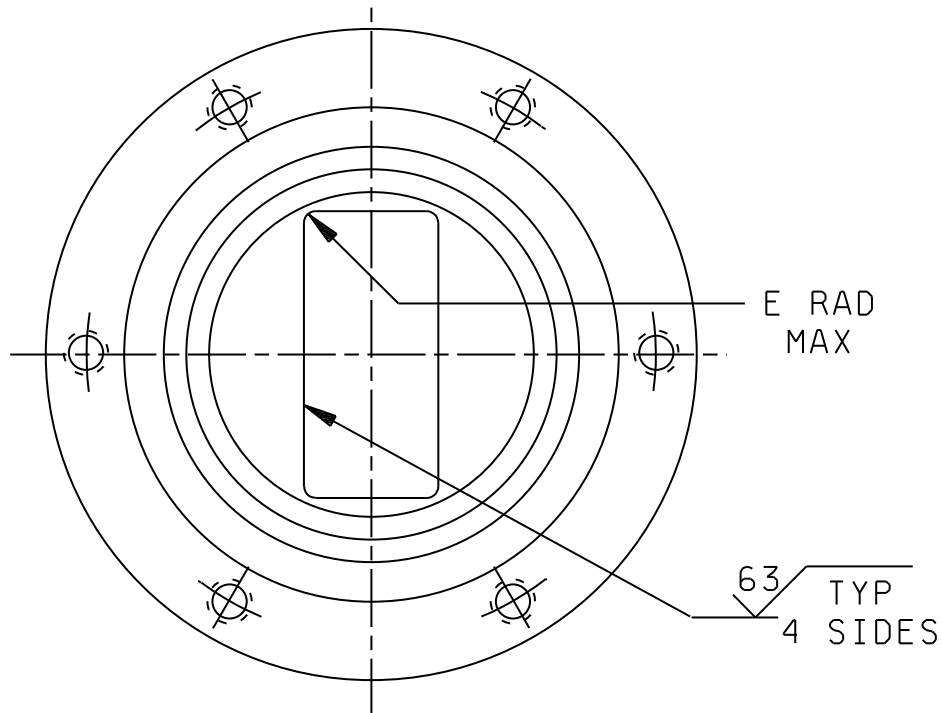
Front View (Left):

- A circular part with six holes arranged in a circle.
- Top feature: $\varnothing .006 \text{ (M)}$, $.250 \text{ (P)}$, F DIA, 6 HOLES.
- Bottom feature: $\varnothing .015 \text{ (M)}$, $B .003 \text{ TOTAL}$, $B .015 \text{ TOTAL}$.
- Central feature: $\varnothing .003 \text{ (M)}$, $A .015 \text{ TOTAL}$, $A .003 \text{ TOTAL}$.
- Dimensions: A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z.
- Angles: 60° , 6 PLS.
- Radii: $.094 \pm .015$, $.094 \text{ R MAX}$, $.005 \text{ R MAX}$.
- Surface finish: $.002 \text{ (-C-)}$.

Cross Section A-A (Right):

- Shows the internal profile of the part.
- Labels: SECTION A-A, MARKING.
- Dimensions: A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, S, T, U, V, W, X, Y, Z.
- Radii: $.094 \text{ R MAX}$, $.005 \text{ R MAX}$.
- Surface finish: $.002 \text{ (-C-)}$.

FSC 5985



Inches	mm
.002	0.05
.003	0.08
.004	0.10
.005	0.13
.015	0.41
.094	2.39
.250	6.35

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. Metric equivalents are in parentheses.
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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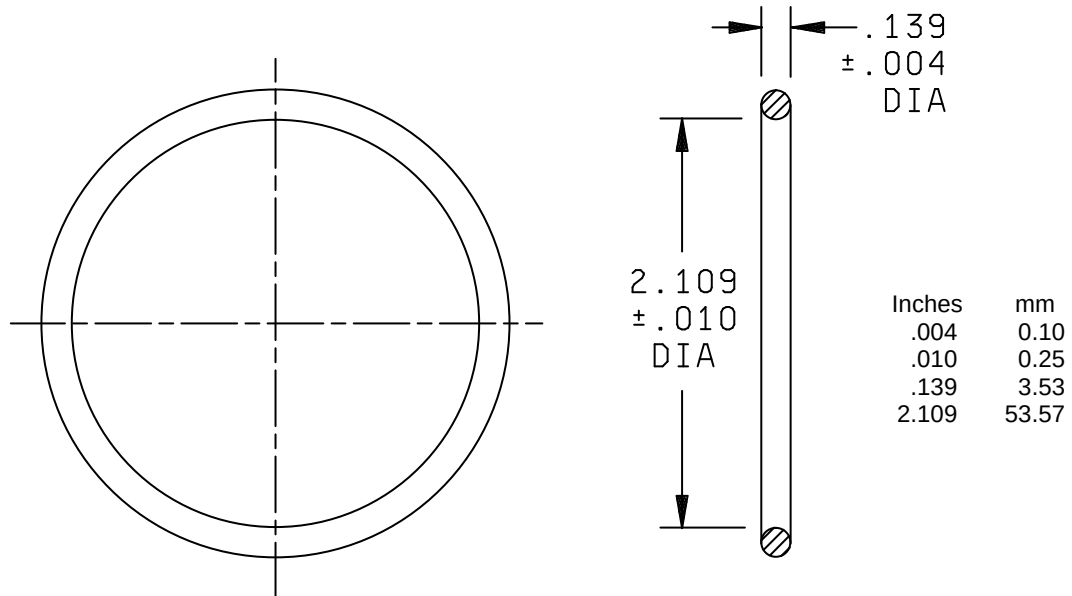
TABLE I. Dash number and dimensions.

PIN M3922/60-			<u>1/</u> Dimensions								
Dash no.	Used with		A	B	C	D	E	F	G	H	J
	Waveguide M85/1-	Mating flange M3922/62-	+ .004 (0.10)	+ .004 (0.10)	± .015 (0.38)	BSC	Max		± .015 (0.38)	± .015 (0.38)	± .015 (0.38)
001 <u>2/</u>	067	001	1.372 (34.85)	.622 (15.80)	3.125 (79.38)	2.750 (69.85)	.016 (0.41)	.190-32 UNF-2B	2.000 (50.80)	.250 (6.35)	.750 (19.05)
002 <u>3/</u>	065	002									

Dash no.	Dimensions - Continued. <u>1/</u>								
	K ± .015 (0.38)	L + .003 (0.08) - .000	M ± .005 (0.13)	N ± .003 (0.08)	P ± .005 (0.13)	Q + .001 (0.3)	R ± .003 (0.08)	S ± .005 (0.14)	T ± .005 (0.13)
001 <u>2/</u>	1.750 (44.45)	1.503 (38.17)	.188 (4.78)	1.598 (40.59)	.500 (12.70)	.017 (0.43)	1.860 (47.24)	2.380 (60.45)	.105 (2.67)
002 <u>3/</u>									

Dash no.	Dimensions - Continued. <u>1/</u>				
	U ± .003 (0.08)	V ± .015 (0.38)	W ± .015 (0.38)	Y + .003 (0.08)	Z ± .005 (0.13)
001 <u>3/</u>	.405 (10.29)	.500 (12.70)	1.000 (25.40)	.753 (19.13)	.040 (1.02)
002 <u>2/</u>					

1/ Dimensions are in inches (millimeters are in parentheses). Dimensions are in accordance with ASME-Y14.5M.2/ Copper alloy.3/ Aluminum alloy.



NOTES:

1. Dimensions are in inches. Dimensions are in accordance with ASME-Y14.5M.
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 M3922/60-001 and M3922/60-002.
4. Formerly MS PIN MS90064-15.

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 (15.88) long	6
Lockwasher - - - - -	#10-.047 (1.19) thick	6

REQUIREMENTS:

Dimensions and configuration.

Flange: See figure 1 and table I.

Gasket: See figure 2.

Material: Metallic alloy as specified in table I.

Marking: See figure 1.

Part or Identifying Number (PIN): M3922/60- (and PIN from table I).

Materials supplied with flange: See table II.

TABLE III. Cross-reference and engineering information.

PIN M3922/60-	AN nomenclature	Frequency range (GHz)
001	UG-343B/U	5.85-8.20
002	UG-440B/U	5.85-8.20

Referenced documents. In addition to MIL-DTL-3922, this specification sheet references the following documents:
ASME B46.1
ASME-Y14.5M

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

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

Preparing activity:

DLA - CC

(Project 5985-2013-035)

Review activities:

Army - AV, MI
Navy - AS, MC, OS, SH
Air Force - 99

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/>.