

DETAIL SPECIFICATION SHEET

FLANGES, WAVEGUIDE (CHOKE)  
 (ROUND, 8 HOLE)

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 the latest issue of MIL-DTL-3922.

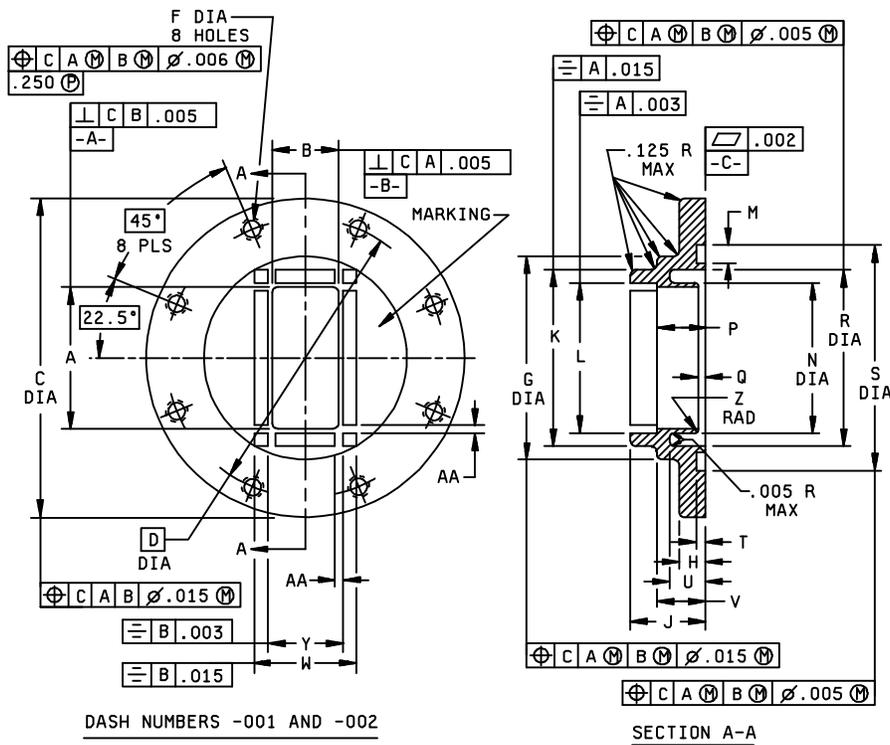
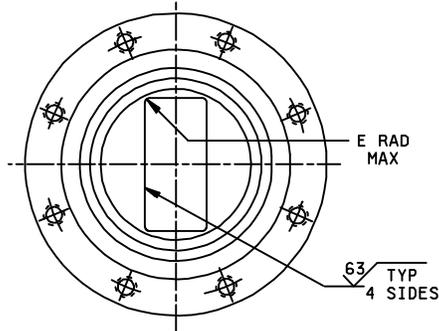
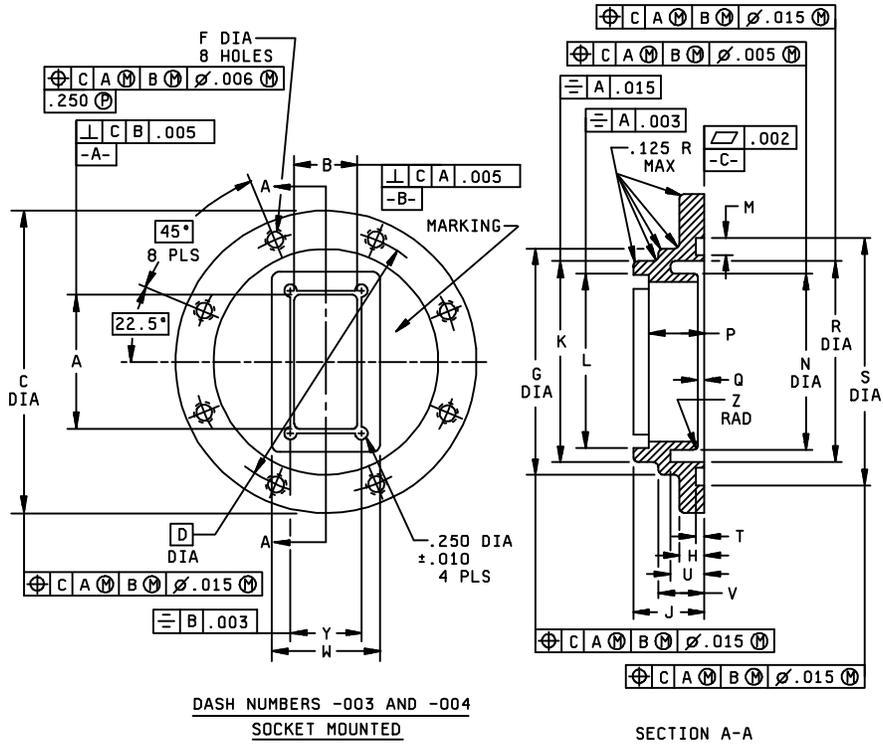


FIGURE 1. Flange configurations.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents 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.

Inches	mm
.002	0.05
.003	0.08
.005	0.13
.006	0.15
.010	0.25
.015	0.38
.125	3.18
.250	6.35

FIGURE 1. Flange configurations - Continued.

## MIL-DTL-3922/61D

TABLE I. Dash numbers and dimensions.

PIN M3922/61-			Dimensions					
Dash no.	Used with		A ±.006 (0.15)	B ±.006 (0.15)	C ±.015 (0.38)	D BSC	E Max R	F
	Waveguide M85/1-	Mating flange M3922/56-						
001 <u>1/</u>	041	002	2.840 (72.14)	1.340 (34.04)	5.313 (134.95)	4.750 (120.65)	.046 (1.17)	.250-20 UNC-2B
002 <u>2/</u>	043	001	"	"	"	"	"	"
003 <u>1/</u>	041	002	"	"	"	"	"	"
004 <u>2/</u>	043	001	"	"	"	"	"	"

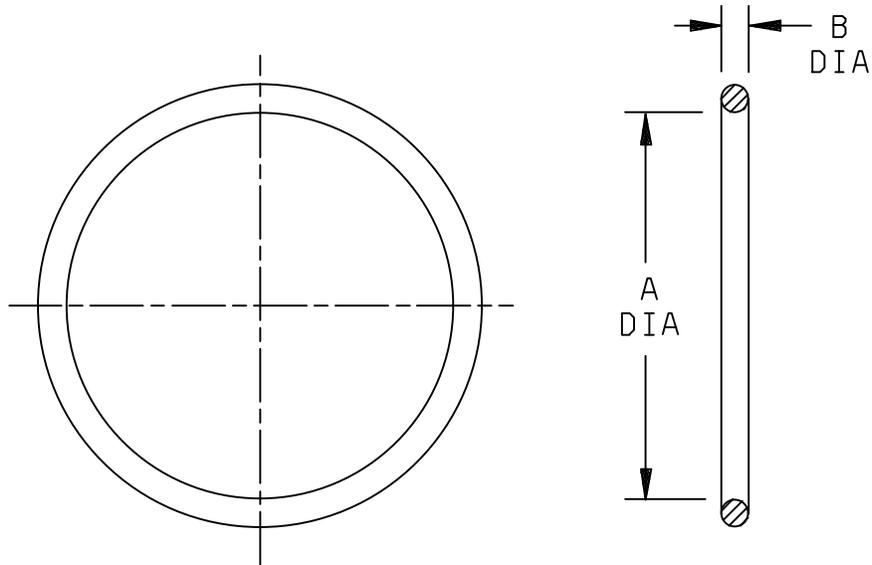
Dash no.	Dimensions							
	G ±.015 (0.38)	H ±.015 (0.38)	J ±.015 (0.38)	K ±.015 (0.38)	L ±.003 (0.08)	M ±.004 (0.10)	N ±.005 (0.13)	P ±.015 (0.38)
001 <u>1/</u>	4.188 (106.38)	.313 (7.95)	1.250 (31.75)	3.500 (88.90)	3.002 (76.25)	.250 (6.35)	3.320 (84.33)	1.000 (25.40)
002 <u>2/</u>	"	"	"	"	3.002 (76.25)	"	"	"
003 <u>1/</u>	"	"	"	"	3.006 (76.35)	"	"	"
004 <u>2/</u>	"	"	"	"	3.006 (76.35)	"	"	"

Dash no.	Dimensions									
	Q ±.001 (0.03)	R ±.005 (0.13)	S ±.005 (0.13)	T ±.005 (0.13)	U ±.005 (0.13)	V ±.015 (0.38)	W ±.015 (0.38)	Y ±.003 (.08)	Z Max Rad	AA ±.015 (0.38)
001 <u>1/</u>	.036 (0.91)	3.880 (98.55)	4.458 (113.23)	.170 (4.32)	.860 (21.84)	1.000 (25.40)	2.000 (50.80)	1.500 (38.10)	.090 (2.29)	.125 (3.18)
002 <u>2/</u>	"	"	"	"	"	"	"	1.500 (38.10)	"	"
003 <u>1/</u>	"	"	"	"	"	"	"	1.506 (38.25)	"	"
004 <u>2/</u>	"	"	"	"	"	"	"	1.506 (38.25)	"	"

1/ Aluminum alloy.    2/ Copper alloy.

- NOTES: 1. Dimensions are in inches.  
2. Metric equivalents are in parentheses.  
3. Metric equivalents 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 configurations - Continued.



Ltr	Dimensions			
	Inches		Millimeters	
	Min	Max	Min	Max
A	4.085 DIA	4.115 DIA	103.76 DIA	104.52 DIA
B	.205 DIA	.215 DIA	5.21 DIA	5.46 DIA

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Gasket used with flanges M3922/61-001, M3922/61-002, M3922/61-003, and M3922/61-004.
4. MS PIN MS90064-17.

FIGURE 2. Gasket dimensions and configurations.

TABLE II. Materials supplied with flange.

Item	Description	Quantity
Gasket -----	Silicone rubber (see figure 2)	1
Hex-head cap screw -----	.250-20 UNC-2A, .750 inch (19.05 mm) long	8
Lockwasher -----	.250 inch (6.35 mm), .046 inch (1.17 mm) thick	8

REQUIREMENTS:

Dimensions and configurations:

Flange: See figure 1.

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): M3922/61- (dash number from figure 1).

ENGINEERING INFORMATION:

Cross reference and engineering information: See table III.

TABLE III. Cross-reference and engineering information.

PIN M3922/61-	AN nomenclature	Frequency range (GHz)
001	UG-585A/U	2.60 - 3.95
002	UG-54B/U	2.60 - 3.95

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5985-1132)

Review activities:

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