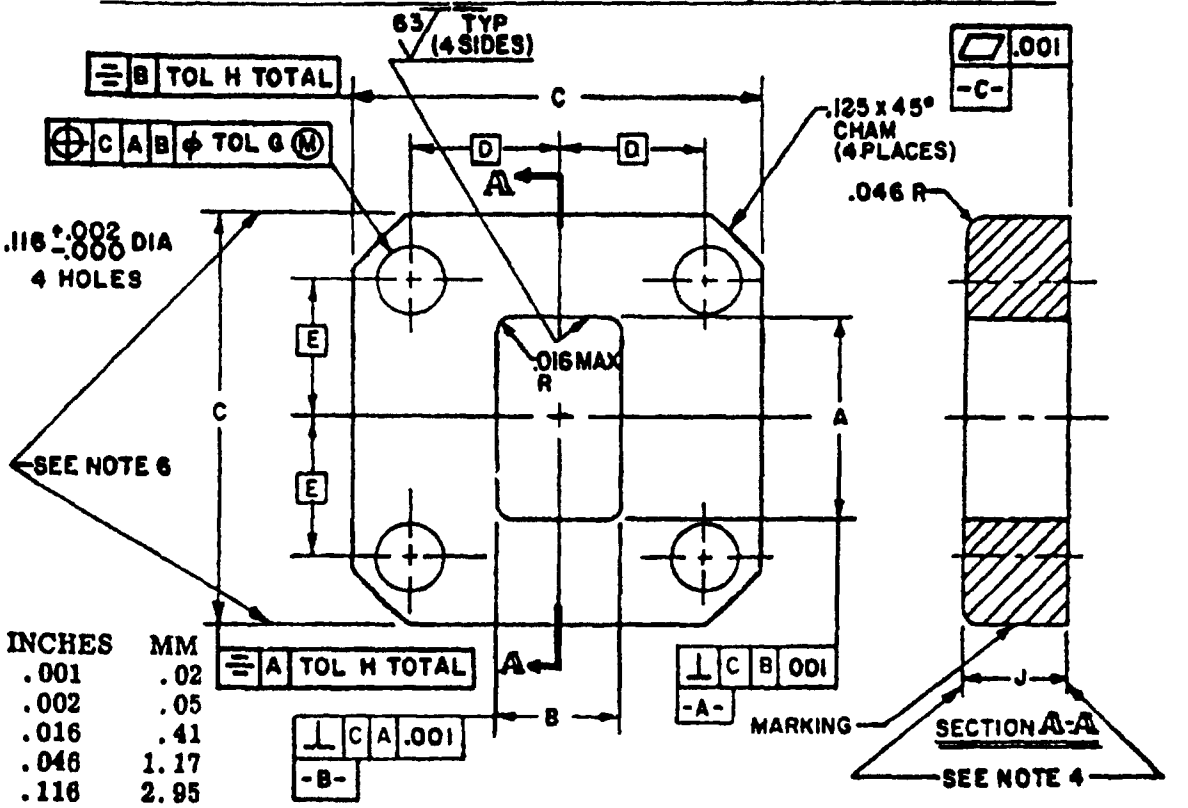
MILITARY SPECIFICATION SHEET

FLANGES, WAVEGUIDE (COVER) (SQUARE, 4 HOLE)

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

The complete requirements for procuring the flanges described herein shall consist of this document and the latest issue of Specification MIL-F-3922.



INCHES	MM
.001	.02
.002	.05
.016	.41
.046	1.17
.116	2.95

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Metric equivalents are in parentheses.
4. These surfaces to be parallel within .0005 (.01 mm) to facilitate the use of quick disconnect couplings covered by MIL-C-39004.
5. Roughness of mating surfaces shall not exceed 63 microinches in accordance with ANSI - B46 1 - 1962, except that flaws shall be included in the roughness height measurement
6. These surfaces to be parallel within .002 for part M3922/54-003 only.

FIGURE 1. Flange configuration (-001 thru -004).

FSC 5985

TABLE I. Dash numbers and dimensions

Dash No. 4/	Part No. M3922 54- Used with Waveguide M85/	Used with Mating flange M3922/	Used with Dash No. 5/	Used with Waveguide M85/	Used with Mating flange M3922/	Dimensions 1/ 2/ 3/ A	Dimensions 1/ 2/ 3/ B
001	1-102 & 1-106	59-003	002	1-103	59-004	.504 ±.001 (12.80) (.03)	.254 ±.001 (6.45) (.03)
003	3-006	59-005				.362 +.002 -.000 (9.19) (.05)	.222 +.002 -.000 (5.64) (.05)

Dash No. 4/	Dash No. 5/	Dimensions 1/ 2/ 3/ (Continued) C	D BSC.	E BSC.	G	H	J	K
001	002	.875 ±.015 (22.22) (.38)	.335 (8.51)	.320 (8.13)	002 (.05)	.015 (.38)	.188 ±.015 (4.78) (.38)	.156 (3.96)
003		.750 ±.005 (19.05) (.13)	.265 (6.73)	.250 (6.35)	.002 (.05)	.005 (.13)	.187 ±.005 (4.75) (.13)	.109 (2.77)

1/ Dimensions are in inches.
2/ Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3/ Metric equivalents are in parentheses.
4/ Material shall be copper alloy.
5/ Material shall be aluminum alloy.

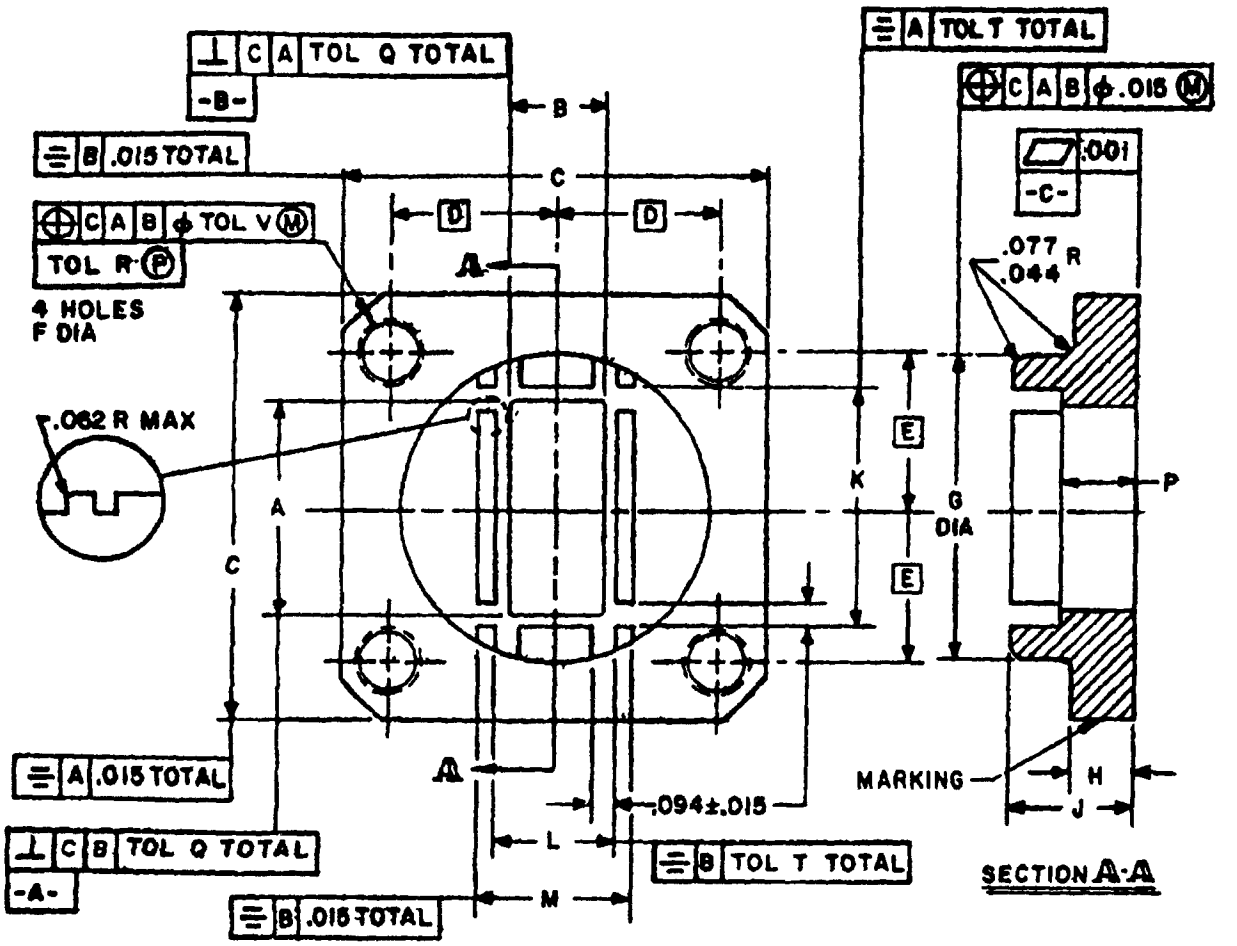
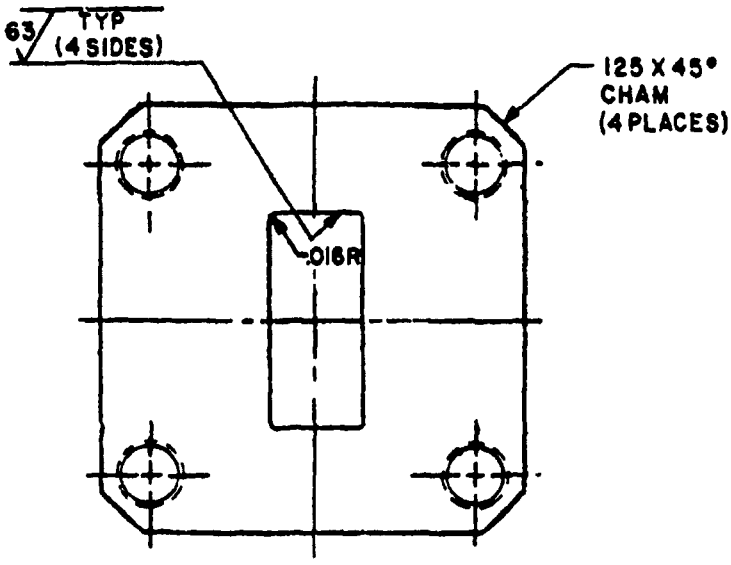


FIGURE 2. Flange configuration (-005 thru -016).



INCHES	MM
.001	.02
.003	.08
.015	.38
.016	.41
.044	1.12
.077	1.96
.094	2.39
.125	3.18

NOTES:
1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. Metric equivalents are in parentheses.
4. Roughness of mating surfaces shall not exceed 63 microinches in accordance with ANSI - B46.1 - 1962, except that flaws shall be included in the roughness height measurement.

FIGURE 2. Flange configuration (-005 thru -016) - Continued.

TABLE II. Dash numbers and dimensions.

Dash No. 4/	Part No. M3922/54- Used with Waveguide M85/1-	Used with Mating flange M3922/59-	Dash No. 5/	Used with Waveguide M85/1-	Used with Mating flange M3922/59-	Dimensions 1/ 2/ 3/ A	B
005	073 069	015	006	071 072 177	016	1.122 ±.004 (28.50) (.10)	.497 ±.004 (12.62) (.10)
007	075 079	013	008	077 078 178	014	.900 ±.004 (22.86) (.10)	.400 ±.004 (10.16) (.10)
009	089 093	---	010	090 091 180	---	.622 ±.002 (15.80) (.05)	.311 ±.002 (7.90) (.05)
011	069 073	007	012	071 072 177	009	1.122 ±.004 (28.50) (.10)	.497 ±.004 (12.62) (.10)
013	075 079	006	014	077 078 178	008	.900 ±.004 (22.86) (.10)	.400 ±.004 (10.16) (.10)
015	089 093	001	016	090 091 180	002	.622 ±.002 (15.80) (.05)	.311 ±.002 (7.90) (.05)

Dash No. 4/	Dash No. 5/	Dimensions 1/ 2/ 3/ (Continued) C ±.015 (.38)	D BSC.	E BSC.	F	G ±.015 (.38)	H	J ±.015 (.38)
005	006	1.875 (47.62)	.737 (18.72)	.676 (17.17)	.164-32 UNC-2B	1.625 (41.27)	.250 ±.015 (6.35) (.38)	.625 (15.88)
007	008	1.625 (41.27)	.640 (16.26)	.610 (15.49)	.164-32 UNC-2B	1.422 (36.12)	.160 ±.010 (4.06) (.25)	.438 (11.12)
009	010	1.312 (33.32)	.478 (12.14)	.497 (12.62)	.138-32 UNC-2B	1.000 (25.40)	.250 ±.015 (6.35) (.38)	.438 (11.12)
011	012	1.875 (47.62)	.737 (18.72)	.676 (17.17)	.169 +.003 (4.29) (.08) -.000	1.625 (41.27)	.250 ±.015 (6.35) (.38)	.625 (15.88)
013	014	1.625 (41.27)	.640 (16.26)	.610 (15.49)	.169 +.003 (4.29) (.08) -.000	1.422 (36.12)	.160 ±.010 (4.06) (.25)	.438 (11.12)
015	016	1.312 (33.32)	.478 (12.14)	.497 (12.62)	.144 +.003 (3.66) (.08) -.000	1.000 (25.40)	.250 ±.015 (6.35) (.38)	.438 (11.12)

See footnotes at end of table.

TABLE I. Dash numbers and dimensions - Continued.

TABLE II. Dash numbers and dimensions - Continued.

Dash No. 4/	Dash No. 5/	Dimensions 1/ 2/ 3/ (Continued)							
		K	L	M Min	P ±.005 (.13)	Q	R	T	V
005	006	1.257 ±.003 (31.93) (.08)	.632 ±.003 (16.05) (.08)	.875 (22.23)	.437 (11.10)	.004 (.10)	.203 (5.16)	.003 (.08)	.004 (.10)
007	008	1.007 ±.003 (25.58) (.08)	.507 ±.003 (12.88) (.08)	.750 (19.05)	.312 (7.92)	.003 (.08)	.250 (6.35)	.003 (.08)	.004 (.10)
009	010	.707 ±.002 (17.96) (.05)	.396 ±.002 (10.06) (.05)	1 000 (25.40)	.312 (7.92)	.002 (.05)	---	.002 (.05)	.004 (.10)
011	012	1.257 ±.003 (31.93) (.08)	.632 ±.003 (16.05) (.08)	.875 (22.23)	.437 (11.10)	.004 (.10)	---	.003 (.08)	.002 (.05)
013	014	1.007 ±.003 (25.58) (.08)	.507 ±.003 (12.88) (.08)	750 (19.05)	.312 (7.92)	.003 (.08)	---	.003 (.08)	.002 (.05)
015	016	.707 ±.002 (17.96) (.05)	.396 ±.002 (10.06) (.05)	1.000 (25.40)	.312 (7.92)	.002 (.05)	---	.002 (.05)	.002 (.05)

1/ Dimensions are in inches.
2/ Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3/ Metric equivalents are in parentheses.
4/ Material shall be copper alloy.
5/ Material shall be aluminum alloy.

REQUIREMENTS:

Dimensions and configuration: See figures 1 and 2, and tables I and II.

Material: Metallic alloy as specified in tables I and II.

Marking: See figures 1 and 2.
Part number: M3922/54- (and dash number from tables I and II).

TABLE III. Cross reference and engineering information.

Part number M3922/54-	AN nomenclature	Frequency range (GHz)
001	UG-595/U	18.0 - 26.5
002	UG-597/U	18.0 - 26.5
003	UG-599/U	26.5 - 40.0
005	---	7.05 - 10.00
006	---	7.05 - 10.00
007	---	8.20 - 12.40
008	---	8.20 - 12.40
009	---	12.40 - 18.00
010	---	12.40 - 18.00
011	---	7 05 - 10.00
012	---	7.05 - 10.00
013	---	8.20 - 12.40
014	---	8.20 - 12.40
015	---	12.40 - 18.00
016	---	12.40 - 18.00

Part M3922/54-004 has been transferred to MIL-F-3922/63.

Custodians.
Army - EL
Navy - EC
Air Force - 85

Review activities.
Army - MI, SG
Navy - OS
Air Force - 11, 80
DSA - ES

User activities
Army - AV
Navy - AS, MC, SH
Air Force - None

Preparing activity:
Navy - EC

Agent.
DSA - ES

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