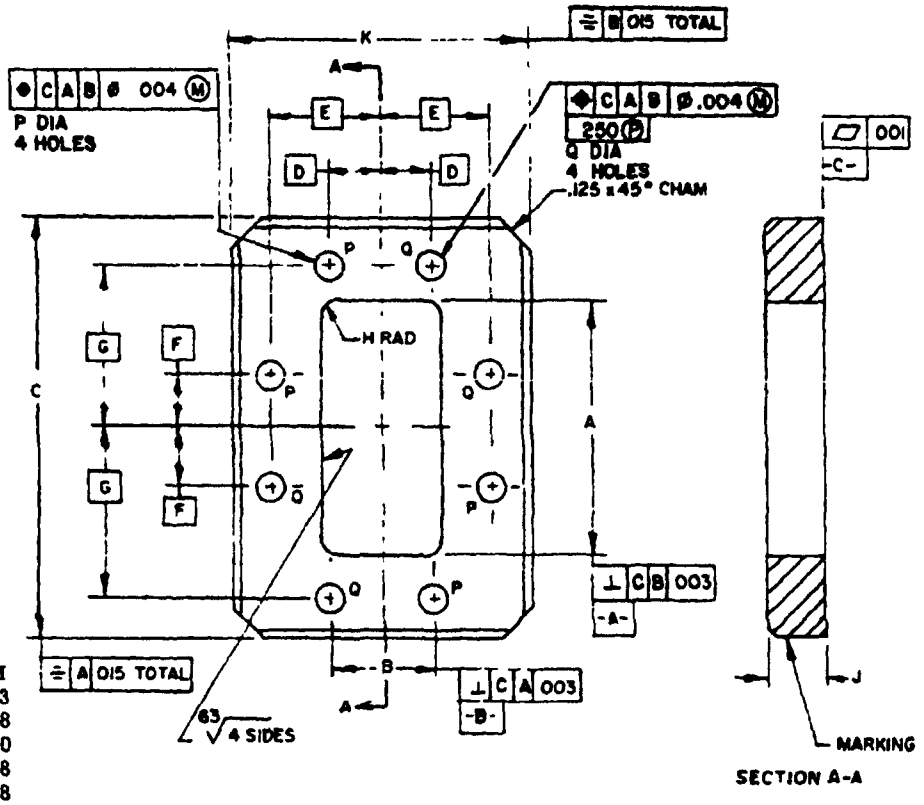
MILITARY SPECIFICATION SHEET

FLANGES, WAVEGUIDE (MINIATURE, UNPRESSURIZED CONTACT)

(4 HOLE AND 8 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	03
.003	.08
.004	.10
.015	.38
.125	3 18
.250	6.35

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. 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
4. For lettered dimensions, see table I

FIGURE 1 Flange configuration for part numbers 001 through 008.

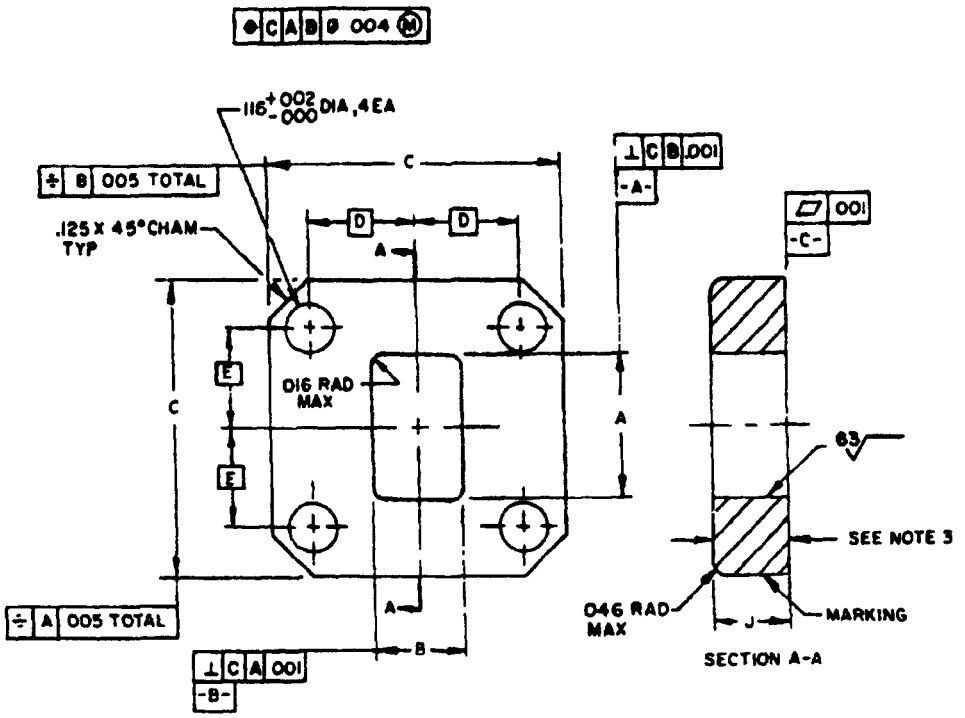
FSC 5985

TABLE I. Dash numbers and dimensions.

Part No. M3922/63-						Dimensions 1/				
Dash No. 2/	Used with Waveguide M85/1-	Used with Mating flange M3922/63-	Dash No. 3/	Used with Waveguide M85/1-	Used with Mating flange M3922/63-	A	B	C	D BSC.	E BSC.
001	051 055	001	005	053 054 174	005	2.002 ±.003 (50.85) (.08)	1.002 ±.003 (25.45) (.08)	2.781 ±.015 (70.64) (.38)	.468 (11.89)	.715 (18.16)
002	063 067	002	006	065 066 176	006	1.503 ±.003 (38.18) (.08)	.753 ±.003 (19.13) (.08)	2.281 ±.015 (57.94) (.38)	.343 (8.71)	.590 (14.99)
003	069 073	003	007	071 072 177	007	1.253 ±.003 (31.83) (.08)	.628 ±.003 (15.95) (.08)	2.016 ±.015 (51.21) (.38)	.280 (7.11)	.517 (13.13)
004	075 079	004	008	077 078 178	008	1.003 ±.003 (25.48) (.08)	.502 ±.003 (12.75) (.08)	1.766 ±.015 (44.86) (.38)	.225 (5.72)	.455 (11.56)
009	107 109	009	010	110 111 183	010	.425 ±.001 (10.80) (.03)	.255 ±.001 (6.48) (.03)	.875 ±.005 (22.23) (.13)	.335 (8.51)	.320 (8.13)

Dash No. 2/	Dash No. 3/	F BSC.	G BSC.	H Max	J	K ±.015 (.38)	P +.003 (.08) -.002 (.05)	Q
001	005	.405 (10.29)	.810 (20.57)	.010 (.25)	.225 ±.025 (5.72) (.64)	.892 (22.66)	.147 (3.73)	(No. 6) .138-32 UNC-2B
002	006	.322 (8.18)	.643 (16.33)	.010 (.25)	.225 ±.025 (5.72) (.64)	.767 (19.48)	.147 (3.73)	(No. 6) .138-32 UNC-2B
003	007	.277 (7.04)	.553 (14.05)	.010 (.25)	.225 ±.025 (5.72) (.64)	.694 (17.63)	.147 (3.73)	(No. 6) .138-32 UNC-2B
004	008	.235 (5.97)	.470 (11.94)	.010 (.25)	.225 ±.025 (5.72) (.64)	.632 (16.05)	.147 (3.73)	(No. 6) .138-32 UNC-2B
009	010	---	---	---	.187 ±.005 (4.75) (.13)	---	---	---

1/ Metric equivalents are in parentheses.
2/ Copper alloy.
3/ Aluminum alloy.



INCHES	MM	INCHES	MM
.001	03	.046	1.17
002	.05	.112	2 84
004	10	.116	2 95
005	.13	.125	3.18
.016	.41	.138	3.51
025	.64	.187	4 75
031	.79	.50	12.70

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. These surfaces to be parallel within .0005 (.01 mm) to facilitate the use of quick disconnect couplings covered by MIL-C-39004
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.
5. For lettered dimensions, see table I.

FIGURE 2. Flange configuration for part numbers 009 and 010.

REQUIREMENTS

Dimensions and configuration: See figures 1 and 2, and table I.

Material. Metallic alloy as specified in table I.

Marking. See figures 1 and 2.
Part number. M3922/63- (and dash number from table I).

Items supplied with flange: See table II.

TABLE II. Items supplied with flange.

Item	M3922/63-001, 002, 003, 004, 005, 006, 007, 008	M3922/63-009, 010
Hex head cap screw	(No 6) 138-32 UNC-2A .50 inch long (4 EACH)	(No. 4) .112-40 UNC-2A .50 inch long (2 EACH)
Hex nut	(No 6) .13h-32 UNC-2B (4 EACH)	(No. 4) .112-40 UNC-2B (2 EACH)
Spring lockwasher	.138 x .031 (4 EACH)	.112 x .025 (2 EACH)

TABLE III Cross-reference of part numbers/AN nomenclature and engineering data.

Part No M3922/63	AN nomenclature	Frequency range
		GHz
001	UG-1475/U	3 95 - 5 85
002	UG-1476/U	5.85 - 8.20
003	UG-1477/U	7.05 -10.0
004	UG-1478/U	8.20 -12.40
005	UG-1480/U	3.95 - 5.85
006	UG-1481/U	5.85 - 8 20
007	UG-1482/U	7.05 -10.0
008	UG-1483/U	8.20 -12.40
009	UG-1530/U	22.0 -33.0
010	---	22.0 -33.0

Custodians
Army - EL
Navy - EC
Air Force - 85

Review activities:
Army - MI, MU, SG, EL
Navy - None
Air Force - 11, 85, 80
DSA - ES

User activities.
Army - AV
Navy - AS, OS, MC, SH, CG
Air Force - 14, 19

Preparing activity
Navy - EC

Agent
DSA - ES

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