

MIL-STD-1327A
NOTICE 1
2 January 1976

MILITARY STANDARD

FLANGES, COAXIAL WAVEGUIDE, AND COUPLING ASSEMBLIES,
SELECTION OF

TO ALL HOLDERS OF MIL-STD-1327A:

1. THE FOLLOWING PAGES OF MIL-STD-1327A HAVE BEEN REVISED AND SUPERSEDE THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
7		7	19 August 1975
8	19 August 1975	(REPRINTED WITHOUT CHANGE)	
9		9	19 August 1975
10	19 August 1975	(REPRINTED WITHOUT CHANGE)	
11	19 August 1975	(REPRINTED WITHOUT CHANGE)	
12		12	19 August 1975

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-1327A will verify that the page changes indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

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

Review activities:
Army - EL, MU, MI
Navy - OS
Air Force - 11, 17, 80
DSA - ES

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

Preparing activity:
Navy - EC

Agent:
DSA - ES

(Project 5985-0827)

TABLE I. Rectangular waveguide flanges. - Continued

Part number	AN nomenclature UG-()/U	Material	Frequency range (GHz)	Mating flange		Used with waveguide	
				MIL-F-3922/ ()	UG-()/U	MIL-W-85/	RG-()/U
MIL-F-3922/63 Flanges, Waveguide (Miniature, Unpressurized Contact) (8 Hole) - Continued							
M3922/63-006	1481	AL	5.85-8.20	63-006	1481	MIL-W-85/1-065, 066, 176	106, ---, ---
007	1482	AL	7.05-10.0	63-007	1482	071, 072, 177	68, ---, ---
008	1483	AL	8.20-12.40	63-008	1483	077, 078, 178	67, ---, ---
MIL-F-3922/64 Flanges, Waveguide (Miniature, Unpressurized Contact) (6 Through Hole, 6 Tapped Hole)							
M3922/64-001	1479	Cu	2.60-3.95	64-001	1479	MIL-W-85/1-039, 043	---, 48
002	1484	AL	2.60-3.95	64-002	1484	041, 042, 172	75, ---, ---
MIL-F-3922/67 Flanges, Waveguide (Contact) (Round, 4 Hole) (Millimeter)							
M3922/67-004	---	Cu	18.0-26.5	67-004	---	MIL-W-85/-1-100, 102, 106	---, 53, 66
005	---	Cu	26.5-40.0	67-005	---	3-006, 007, 008	96, ---, 271
006	---	Cu	33.0-50.0	67-006	---	3-010, 011, 012	97, ---, 272
007	---	Cu	40.0-60.0	67-007	---	3-014, 015, 016	---, ---, 358
008	---	Cu	50.0-75.0	67-008	---	3-017, 018, 019	98, ---, 273
009	---	Cu	60.0-90.0	67-009	---	3-020, 021, 022	99, ---, 274
010	---	Cu	75.0-110.0	67-010	---	3-023, 024, 025	---, ---, 359
011	---	AL	18.0-26.5	67-011	---	1-103, 104	121, ---
012	---	AL	26.5-40.0	67-012	---	3-009	---
013	---	AL	33.0-50.0	67-013	---	3-013	---

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TABLE I. Rectangular waveguide flanges. - Continued

Part number	AN nomenclature UG-()/U	Material	Frequency range (GHz)	Mating flange		Used with waveguide	
				MIL-F-3922/	UG-()/U	MIL-W-85/	RG-()/U
MIL-F-3922/68 Flanges, Waveguide Cover (Butt Mount) (Square, 4 Hole)							
M3922/68-001	---	Cu	26.5-40.0	59-005, 012	600A	MIL-W-85/3-006, 007, 008	96, ---, 271
002	---	Cu	26.5-40.0	68-001, 54-003	---	906, 007, 008	96, ---, 271
003	---	Cu	26.5-40.0	68-001, 54-003	599	906, 007, 008	96, ---, 271
MIL-F-3922/69 Flanges, Waveguide (Choke) (Square, 4 Hole)							
M3922/69-001	1494	Cu	7.0-11.0	70-001	1493	MIL-W-85/1-155, 156	320, ---
002	---	6061	7.0-11.0	70-002, 003	---	157, 158, 160	---, ---, ---
003	---	6063	7.0-11.0	70-002, 003	---	157, 158, 160	---, ---, ---
004	---	Cu	15.0-22.0	70-010	---	094, 096	352, 353
005	---	6061	15.0-22.0	70-011, 012	---	097, 098, 181	351, ---, ---
006	---	6063	15.0-22.0	70-011, 012	---	097, 098, 181	351, ---, ---
MIL-F-3922/70 Flanges, Waveguide (Cover) (Square, 4 Hole, Butt Mount)							
M3922/70-001	1493	Cu	7.0-11.0	69-001	1494	MIL-W-85/1-155, 156	320, ---
002	---	6061	7.0-11.0	69-002, 003	---	157, 158, 160	---, ---, ---
003	---	6063	7.0-11.0	69-002, 003	---	157, 158, 160	---, ---, ---
004	---	Cu	10.0-15.0	59-010	---	081, 085	---, 346, ---
005	---	6061	10.0-15.0	59-011	---	083, 084, 179	347, ---, ---
006	---	6063	10.0-15.0	59-011	---	083, 084, 179	347, ---, ---
007	---	Cu	12.4-18.0	59-001	541A	087, 089, 093	---, 91, 107
008	---	6061	12.4-18.0	59-002	1666	090, 091, 180	349, ---, ---

See footnote at end of table.

TABLE I. Rectangular waveguide flanges. - Continued

Part number	AN nomenclature UG-()/U ¹	Material ¹ / _U	Frequency range (GHz)	Mating flange		Used with waveguide	
				MIL-F-3922/	UG-()/U	MIL-W-85/	RG-()/U
MIL-F-3922/70 Flanges, Waveguide (Cover) (Square, 4 Hole, Butt Mount)							
M3922/70-009	---	6063	12.4-18.0	59-002	1666	MIL-W-85/1-090, 091, 180	349, ---, ---
010	---	Cu	15.0-22.0	69-004	---	094, 096	352, 353
011	---	6061	15.0-22.0	69-005	---	097, 098, 181	351, ---, ---
012	---	6063	15.0-22.0	69-005	---	097, 098, 181	351, ---, ---
013	---	Cu	7.0-11.0	69-001	1494	155, 156	320, ---, ---
014	---	6061	7.0-11.0	69-002, 003	---	157, 158, 160	---, ---, ---
015	---	6063	7.0-11.0	69-002, 003	---	157, 158, 160	---, ---, ---
016	---	Cu	10.0-15.0	59-010	---	081, 085	---, 346
017	---	6061	10.0-15.0	59-011	---	083, 084, 179	347, ---, ---
018	---	6063	10.0-15.0	59-011	---	083, 084, 179	347, ---, ---
019	---	Cu	12.4-18.0	59-001	541A	087, 089, 093	---, 91, 107
020	---	6061	12.4-18.0	59-002	1666	090, 091, 180	349, ---, ---
021	---	6063	12.4-18.0	59-002	1666	090, 091, 180	349, ---, ---
022	---	Cu	15.0-22.0	69-004	---	094, 096	352, 353
023	---	6061	15.0-22.0	69-005, 006	---	097, 098, 181	351, ---, ---
024	---	6063	15.0-22.0	69-005, 006	---	097, 098, 181	351, ---, ---
MIL-F-3922/74 Flanges, Waveguide (Contact) (Round, 4 Hole) (Submillimeter)							
M3922/74-001	---	Cu	90.0-140.0	74-001	---	MIL-W-85/3-026, 027, 028	---
002	---	Cu	110.0-170.0	74-002	---	029, 030, 031	---
003	---	Cu	140.0-220.0	74-003	---	032, 033, 034	---
004	---	Cu	170.0-260.0	74-004	---	035, 036, 037	---
005	---	Cu	220.0-325.0	74-005	---	038, 039, 040	---

¹/ Cu = Copper alloy; AL = aluminum or aluminum alloy; 6061 = aluminum alloy 6061; 6063 = aluminum alloy 6063.

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TABLE B. Rigid, air dielectric coaxial flanges.

Part number M24044/	Type CG-()/U	Function	Used with coaxial line
1-01	3030	Fixed	50 Ohm 7/8 Copper
1-02	3006	Fixed	50 Ohm 7/8 Aluminum
1-03	3007	Fixed	75 Ohm 7/8 Copper
1-04	3008	Fixed	75 Ohm 7/8 Aluminum
1-05	3032	Fixed	50 Ohm 1-5/8 Copper
1-06	3012	Fixed	50 Ohm 1-5/8 Aluminum
1-07	3013	Fixed	75 Ohm 1-5/8 Copper
1-08	3014	Fixed	75 Ohm 1-5/8 Aluminum
1-09	3018	Fixed	50 Ohm 3-1/8 Copper
1-10	3020	Fixed	50 Ohm 3-1/8 Aluminum
1-11	3019	Fixed	75 Ohm 3-1/8 Copper
1-12	3021	Fixed	75 Ohm 3-1/8 Aluminum
1-13	3026	Fixed	50 Ohm 6-1/8 Copper
1-14	3027	Fixed	50 Ohm 6-1/8 Aluminum
2-01	3031	Rotatable	50 Ohm 7/8 Copper
2-02	3009	Rotatable	50 Ohm 7/8 Aluminum
2-03	3010	Rotatable	75 Ohm 7/8 Copper
2-04	3011	Rotatable	75 Ohm 7/8 Aluminum
2-05	3033	Rotatable	50 Ohm 1-5/8 Copper
2-06	3015	Rotatable	50 Ohm 1-5/8 Aluminum
2-07	3016	Rotatable	75 Ohm 1-5/8 Copper
2-08	3017	Rotatable	75 Ohm 1-5/8 Aluminum
2-09	3022	Rotatable	50 Ohm 3-1/8 Copper
2-10	3024	Rotatable	50 Ohm 3-1/8 Aluminum
2-11	3023	Rotatable	75 Ohm 3-1/8 Copper
2-12	3025	Rotatable	75 Ohm 3-1/8 Aluminum
2-13	3028	Rotatable	50 Ohm 6-1/8 Copper
2-14	3029	Rotatable	50 Ohm 6-1/8 Aluminum

TABLE III. Ridge waveguide flanges.

Part number M39000/	Type UG-()/U	Used with waveguide	Material 1/	Frequency range (GHz)
Single ridge (bandwidth ratio 2.4:1)				
1-001	1541	WRS840U24A	A	.840-2.00
1-002	1542	WRS840U24B	B	.840-2.00
1-004	1544	WRS150D24A	A	1.50-3.60
1-005	1545	WRS150D24B	B	1.50-3.60
1-007	1547	WRS200D24A	A	2.00-4.80
1-008	1548	WRS200D24B	B	2.00-4.80
1-010	1550	WRS350D24A	A	3.50-8.20
1-011	1551	WRS350D24B	B	3.50-8.20
1-013	1553	WRS475D24A	A	4.75-11.0
1-014	1554	WRS475D24B	B	4.75-11.0
1-016	1556	WRS750D24A	A	7.50-18.0
1-017	1557	WRS750D24B	B	7.50-18.0
1-019	1559	WRS110C24A	A	11.0-26.5
1-020	1560	WRS110C24B	B	11.0-26.5
1-022	1562	WRS180C24A	A	18.0-40.0
1-023	1563	WRS180C24B	B	18.0-40.0
Single ridge (bandwidth ratio 3.6:1)				
2-001	1604	WRS970U36A	A	0.97-3.50
2-002	1605	WRS970U36B	B	0.97-3.50
2-004	1607	WRS140D36A	A	1.40-5.00
2-005	1608	WRS140D36B	B	1.40-5.00
2-007	1610	WRS350D36A	A	3.50-12.4
2-008	1611	WRS350D36B	B	3.50-12.4
2-010	1613	WRS500D36A	A	5.00-18.0
2-011	1614	WRS500D36B	B	5.00-18.0
2-013	1616	WRS124C36A	A	12.4-40.0
2-014	1617	WRS124C36B	B	12.4-40.0
Double ridge (bandwidth ratio 2.4:1)				
3-001	1565	WRD840U24A	A	0.84-2.00
3-002	1566	WRD840U24B	B	0.84-2.00
3-004	1568	WRD150D24A	A	1.50-3.60
3-005	1569	WRD150D24B	B	1.50-3.60
3-007	1571	WRD200D24A	A	2.00-4.80
3-008	1572	WRD200D24B	B	2.00-4.80
3-010	1574	WRD350D24A	A	3.50-8.20
3-011	1575	WRD350D24B	B	3.50-8.20
3-013	1577	WRD475D24A	A	4.75-11.0
3-014	1578	WRD475D24B	B	4.75-11.0
3-016	1580	WRD750D24A	A	7.50-18.0
3-017	1581	WRD750D24B	B	7.50-18.0
3-019	1583	WRD110C24A	A	11.0-26.5
3-020	1584	WRD110C24B	B	11.0-26.5
3-022	1586	WRD180C24A	A	18.0-40.0
3-023	1587	WRD180C24B	B	18.0-40.0

See footnote at end of table.

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TABLE III. Ridge waveguide flanges. - Continued

Part number M39000/	Type UG-()/U	Used with waveguide	Material 1/	Frequency range (GHz)
Double ridge (bandwidth ratio 3.6:1)				
4-001	1589	WRD970U36A	A	0.97-3.50
4-002	1590	WRD970U36B	B	0.97-3.50
4-004	1592	WRD140D36A	A	1.40-5.00
4-005	1593	WRD140D36B	B	1.40-5.00
4-007	1595	WRD350D36A	A	3.50-12.40
4-008	1596	WRD350D36B	B	3.50-12.40
4-010	1598	WRD500D36A	A	5.00-18.00
4-011	1599	WRD500D36B	B	5.00-18.00
4-013	1601	WRD124C36A	A	12.4-40.0
4-014	1602	WRD124C36B	B	12.4-40.0

1/ A = Aluminum alloy; B = Brass.

TABLE IV. Coupling assemblies, quick-disconnect, for use with subminiature waveguide flanges.

Part number M39004/	Used with flanges	
	UG-()/U	MIL-F-3922/
1-001	419	53-005
	541A	59-001
1-002	595	54-001
	596A	59-003
	1530	54-004
1-003	599	54-003
	600A	59-005
1-004	1521	65-001
	1529	65-002
1-005	1522	66-001
	1523	66-002
	1524	66-003
	1525	66-004
	1526	66-005
	1527	66-006
	1528	66-007
2-001	---	74-001
	---	74-002
	---	74-003
	---	74-004
	---	74-005

Custodians:

Army - EL
Navy - EC
Air Force - 85

Review activities:

Army - EL, MU, MI ;
Navy - OS
Air Force - 11, 17, 80
DSA - ES

User activities:

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DSA - ES

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