

REV.
C

AS9502™

FEDERAL SUPPLY CLASS
5306

RATIONALE

ADD POSITION REQUIREMENTS FOR DRILLED HOLE AND REVISE LEAD THREAD CHAMFER TO AS1132, REVISE ACROSS POINTS PER AS1132, REVISE FPI TO CURRENT PRACTICE, REVISE DRILLED HOLE LOCATION DIMENSION TO BASIC, GENERAL FORMAT AND EDITORIAL CHANGES THROUGHOUT.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9502A, AMENDMENT 1. THIS SAE STANDARD MAY RETAIN THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) MAY CONTINUE TO BE MANDATORY FOR DoD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

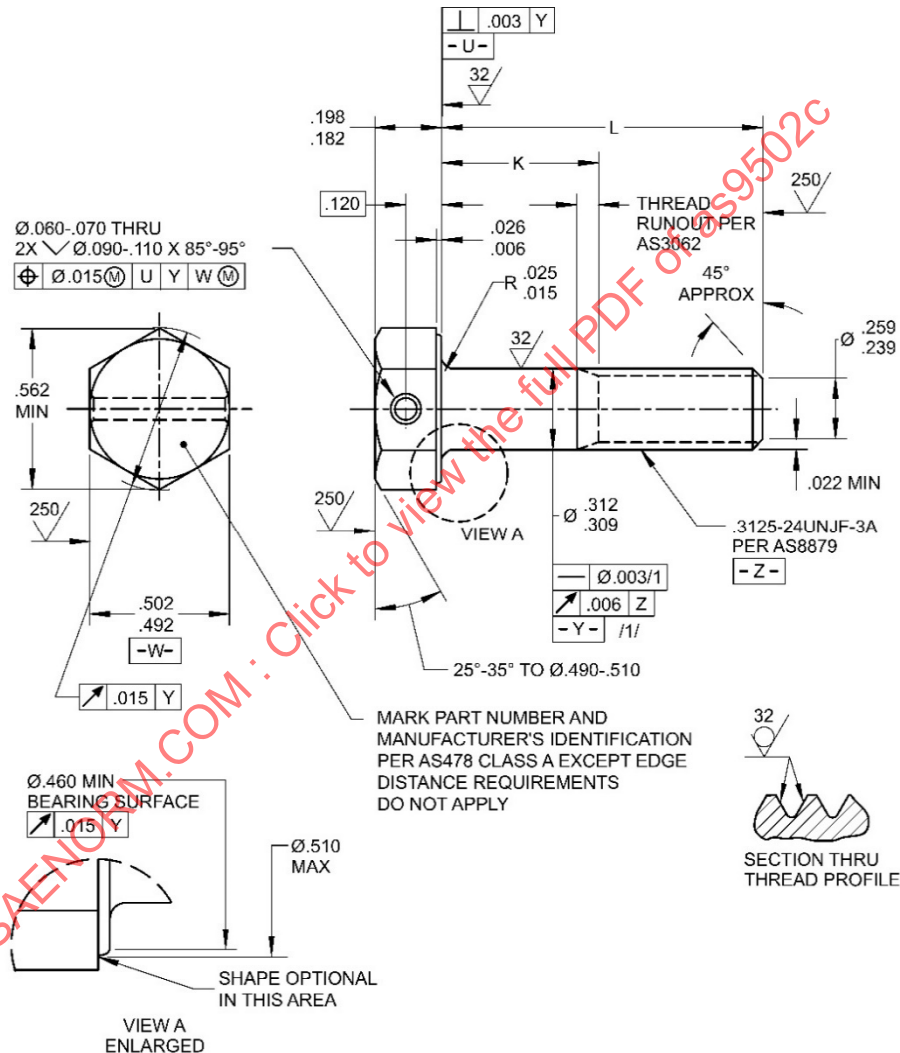
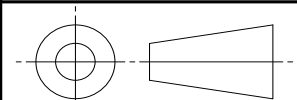


FIGURE 1 - BOLT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS9502C>

THIRD ANGLE PROJECTION



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7477



AEROSPACE STANDARD

BOLT, MACHINE - HEXAGON HEAD, DRILLED,
1 HOLE, FULL SHANK, CRES, UNS S66286,
130 KSI MIN, .3125-24 UNJF-3A

AS9502™
SHEET 1 OF 3

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TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NUMBER	L	K	APPROX MASS LB/100	PART NUMBER	L	K	APPROX MASS LB/100
MS9502-04	.490- .510	.088- .108	2.15	MS9502-32	2.740-2.760	1.815-1.875	7.03
MS9502-05	.552- .572	.088- .108	2.29	MS9502-33	2.865-2.885	1.940-2.000	7.30
MS9502-06	.615- .635	.088- .108	2.42	MS9502-34	2.990-3.010	2.065-2.125	7.57
MS9502-07	.678- .698	.088- .108	2.56	MS9502-35	3.115-3.135	2.190-2.250	7.80
MS9502-08	.740- .760	.088- .108	2.70	MS9502-36	3.240-3.260	2.315-2.375	8.11
MS9502-09	.802- .822	.088- .108	2.83	MS9502-37	3.365-3.885	2.440-2.500	8.38
MS9502-10	.865- .885	.088- .108	2.97	MS9502-38	3.490-3.510	2.565-2.625	8.65
MS9502-11	.928- .948	.088- .108	3.10	MS9502-39	3.615-3.635	2.690-2.750	8.92
MS9502-12	.990-1.010	.088- .125	3.24	MS9502-40	3.740-3.760	2.815-2.875	9.19
MS9502-13	1.052-1.072	.128- .188	3.37	MS9502-41	3.865-3.885	2.940-3.000	9.46
MS9502-14	1.115-1.135	.190- .250	3.51	MS9502-42	3.990-4.010	3.065-3.125	9.73
MS9502-15	1.178-1.198	.252- .312	3.64	MS9502-43	4.115-4.135	3.190-3.250	10.00
MS9502-16	1.240-1.260	.315- .375	3.78	MS9502-44	4.240-4.260	3.315-3.375	10.27
MS9502-17	1.302-1.322	.378- .438	3.91	MS9502-45	4.365-4.385	3.440-3.500	10.54
MS9502-18	1.365-1.385	.440- .500	4.05	MS9502-46	4.490-4.510	3.565-3.625	10.81
MS9502-19	1.428-1.448	.502- .562	4.16	MS9502-47	4.615-4.635	3.690-3.750	11.08
MS9502-20	1.490-1.510	.565- .625	4.32	MS9502-48	4.740-4.780	3.815-3.875	11.36
MS9502-21	1.552-1.572	.628- .688	4.45	MS9502-49	4.865-4.885	3.490-4.000	11.63
MS9502-22	1.615-1.635	.690- .750	4.59	MS9502-50	4.990-5.010	4.085-4.125	11.90
MS9502-23	1.678-1.698	.752- .812	4.73	MS9502-51	5.115-5.135	4.190-4.250	12.17
MS9502-24	1.740-1.760	.815- .875	4.86	MS9502-52	5.240-5.260	4.315-4.375	12.44
MS9502-59	1.802-1.822	.878- .938	5.00	MS9502-53	5.365-5.385	4.440-4.500	12.71
MS9502-25	1.865-1.885	.940-1.000	5.13	MS9502-54	5.490-5.510	4.565-4.625	12.98
MS9502-60	1.928-1.948	1.002-1.062	5.27	MS9502-55	5.615-5.635	4.690-4.750	13.25
MS9502-26	1.990-2.010	1.065-1.125	5.40	MS9502-56	5.740-5.760	4.815-4.875	13.52
MS9502-27	2.115-2.135	1.190-1.250	5.67	MS9502-57	5.865-5.885	4.940-5.000	13.78
MS9502-28	2.240-2.260	1.315-1.375	5.94	MS9502-58	5.990-6.010	5.065-5.125	14.06
MS9502-29	2.365-2.385	1.440-1.500	6.21				
MS9502-30	2.490-2.510	1.565-1.625	6.48				
MS9502-31	2.615-2.635	1.690-1.750	6.75				

NOTES:

- 1/1/ FOR PART NUMBERS MS9502-04 THROUGH MS9502-19, DATUM **Z** (THREAD PD) SHALL REPLACE DATUM **Y**.
2. MATERIAL: CORROSION AND HEAT RESISTANT STEEL AMS5731 (COMPOSITION SIMILAR TO UNS S66286).
3. PROCUREMENT SPECIFICATION: AS7477.
4. FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M TYPE I, SENSITIVITY LEVEL 2 MIN.
5. INCOMPLETE THREADS NOT TO ENTER FILLET.
6. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
7. BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
8. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
9. DIMENSIONS ARE IN INCHES.
10. DO NOT USE UNASSIGNED PART NUMBERS.
11. UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

	AEROSPACE STANDARD		AS9502™ SHEET 2 OF 3	REV. C
	BOLT, MACHINE - HEXAGON HEAD, DRILLED, 1 HOLE, FULL SHANK, CRES, UNS S66286, 130 KSI MIN, .3125-24 UNJF-3A			