

REV.  
D

AS9501™

FEDERAL SUPPLY CLASS  
5306

RATIONALE

THIS IS A LIMITED SCOPE CHANGE TO CORRECT TYPO FOR PART NO.MS9501-39. CHANGE DIM L FROM "3.365-3.885" TO "3.365-3.385" AS REV. A.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9501A AMENDMENT 1, NOTICE 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.

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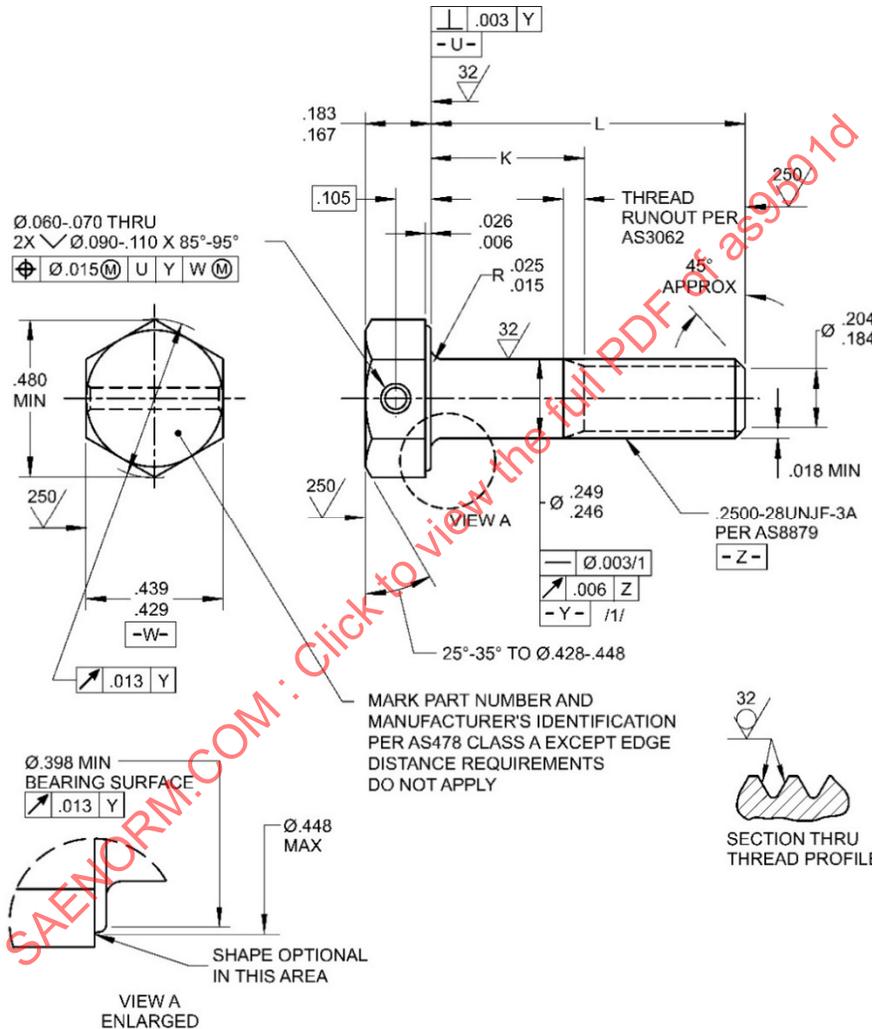
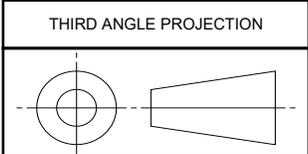


FIGURE 1 - BOLT

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS9501D/>



CUSTODIAN: E-25

PROCUREMENT SPECIFICATION: AS7477



**AEROSPACE STANDARD**

BOLT, MACHINE - HEXAGON HEAD, DRILLED, 1 HOLE,  
FULL SHANK CRES, UNS S66286, 130 KSI MIN,  
.2500-28 UNJF-3A

AS9501™  
SHEET 1 OF 3

REV.  
D

ISSUED 1998-08 REAFFIRMED 2007-06 REVISED 2022-04

**TABLE 1 - PART NUMBERS AND DIMENSIONS**

PART NUMBER	L	K	APPROX MASS LB/100	PART NUMBER	L	K	APPROX MASS LB/100
MS9501-04	.365- .385	.079- .099	1.30	MS9501-32	2.490-2.510	1.690-1.750	4.22
MS9501-05	.428- .448	.079- .099	1.38	MS9501-33	2.615-2.635	1.815-1.875	4.39
MS9501-06	.490- .510	.079- .099	1.47	MS9501-34	2.740-2.760	1.940-2.000	4.56
MS9501-07	.552- .572	.079- .099	1.55	MS9501-35	2.865-2.885	2.065-2.125	4.74
MS9501-08	.615- .635	.079- .099	1.64	MS9501-36	2.990-3.010	2.190-2.250	4.91
MS9501-09	.678- .698	.079- .099	1.73	MS9501-37	3.115-3.135	2.315-2.375	5.06
MS9501-10	.740- .760	.079- .099	1.81	MS9501-38	3.240-3.260	2.440-2.500	5.25
MS9501-11	.802- .822	.079- .099	1.90	MS9501-39	3.365-3.385	2.565-2.625	5.42
MS9501-12	.865- .885	.079- .125	1.98	MS9501-40	3.490-3.510	2.690-2.750	5.60
MS9501-13	.928- .948	.128- .188	2.07	MS9501-41	3.615-3.635	2.815-2.875	5.77
MS9501-14	.990-1.010	.190- .250	2.16	MS9501-42	3.740-3.760	2.940-3.000	5.94
MS9501-15	1.052-1.072	.252- .312	2.24	MS9501-43	3.865-3.885	3.065-3.125	6.11
MS9501-16	1.115-1.135	.315- .375	2.33	MS9501-44	3.990-4.010	3.190-3.250	6.28
MS9501-17	1.178-1.198	.378- .438	2.41	MS9501-45	4.115-4.135	3.315-3.375	6.46
MS9501-18	1.240-1.260	.440- .500	2.50	MS9501-46	4.240-4.260	3.440-3.500	6.63
MS9501-19	1.302-1.322	.502- .562	2.58	MS9501-47	4.365-4.385	3.565-3.625	6.80
MS9501-20	1.365-1.385	.565- .625	2.67	MS9501-48	4.490-4.510	3.690-3.750	6.97
MS9501-21	1.428-1.448	.628- .688	2.76	MS9501-49	4.615-4.635	3.815-3.875	7.14
MS9501-22	1.490-1.510	.690- .750	2.84	MS9501-50	4.740-4.760	3.940-4.000	7.32
MS9501-23	1.552-1.572	.752- .812	2.93	MS9501-51	4.865-4.885	4.065-4.125	7.49
MS9501-24	1.615-1.635	.815- .875	3.02	MS9501-52	4.990-5.010	4.190-4.250	7.66
MS9501-25	1.678-1.698	.878- .938	3.10	MS9501-53	5.115-5.135	4.315-4.375	7.83
MS9501-26	1.740-1.760	.940-1.000	3.19	MS9501-54	5.240-5.260	4.440-4.500	8.00
MS9501-02	1.802-1.822	1.002-1.062	3.27	MS9501-55	5.365-5.385	4.565-4.625	8.18
MS9501-27	1.865-1.885	1.065-1.125	3.36	MS9501-56	5.490-5.510	4.690-4.750	8.25
MS9501-03	1.928-1.948	1.128-1.188	3.44	MS9501-57	5.615-5.635	4.815-4.875	8.52
MS9501-28	1.990-2.010	1.190-1.250	3.53	MS9501-58	5.740-5.760	4.940-5.000	8.66
MS9501-29	2.115-2.135	1.315-1.375	3.70	MS9501-59	5.865-5.885	5.065-5.125	8.83
MS9501-30	2.240-2.260	1.440-1.500	3.87	MS9501-60	5.990-6.010	5.190-5.250	9.00
MS9501-31	2.365-2.385	1.565-1.625	4.05				

NOTES:

- FOR PART NUMBERS MS9501-04 THROUGH MS9501-18, THE DATUM Z (THREAD PD) SHALL REPLACE DATUM Y.
- MATERIAL: CORROSION AND HEAT RESISTANT STEEL AMS5731 (COMPOSITION SIMILAR TO UNS S66286).
- PROCUREMENT SPECIFICATION: AS7477.
- FLUORESCENT PENETRANT INSPECTION PER ASTM E1417/E1417M TYPE I, SENSITIVITY LEVEL 2 MIN.
- INCOMPLETE THREADS NOT TO ENTER FILLET.
- SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
- BREAK SHARP EDGES .003 TO .015, UNLESS OTHERWISE SPECIFIED.
- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).
- DIMENSIONS ARE IN INCHES.
- DO NOT USE UNASSIGNED PART NUMBERS.
- UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.

	<b>AEROSPACE STANDARD</b>	<b>AS9501™</b> SHEET 2 OF 3	<b>REV.</b> <b>D</b>
	BOLT, MACHINE - HEXAGON HEAD, DRILLED, 1 HOLE, FULL SHANK CRES, UNS S66286, 130 KSI MIN, .2500-28 UNJF-3A		