FEDERAL SUPPLY CLASS
5306

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9458B, AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

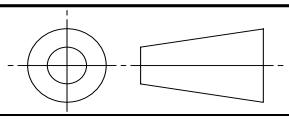
ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL) MAY CONTINUE TO BE MANDATORY FOR DOD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY THE SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.

WARNING

THIS DOCUMENT INCLUDES CADMIUM AS A PLATING MATERIAL. THE USE OF CADMIUM HAS BEEN RESTRICTED AND/OR BANNED FOR USE IN MANY COUNTRIES DUE TO ENVIRONMENTAL AND HEALTH CONCERNS. THE USER SHOULD CONSULT WITH LOCAL OFFICIALS ON THE ENVIRONMENTAL AND HEALTH REGULATIONS REGARDING ITS USE.

ISSUED 1998-08 REVISED 2003-11 REAFFIRMED 2007-06

THIRD ANGLE PROJECTION



CUSTODIAN: SAE E-25

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

BOLT, MACHINE - STEEL, DIFFUSED NICKEL-CADMIUM PLATED, HEXAGON HEAD, UNS K14675, 195 KSI MIN, .6250-18 UNJF-3A

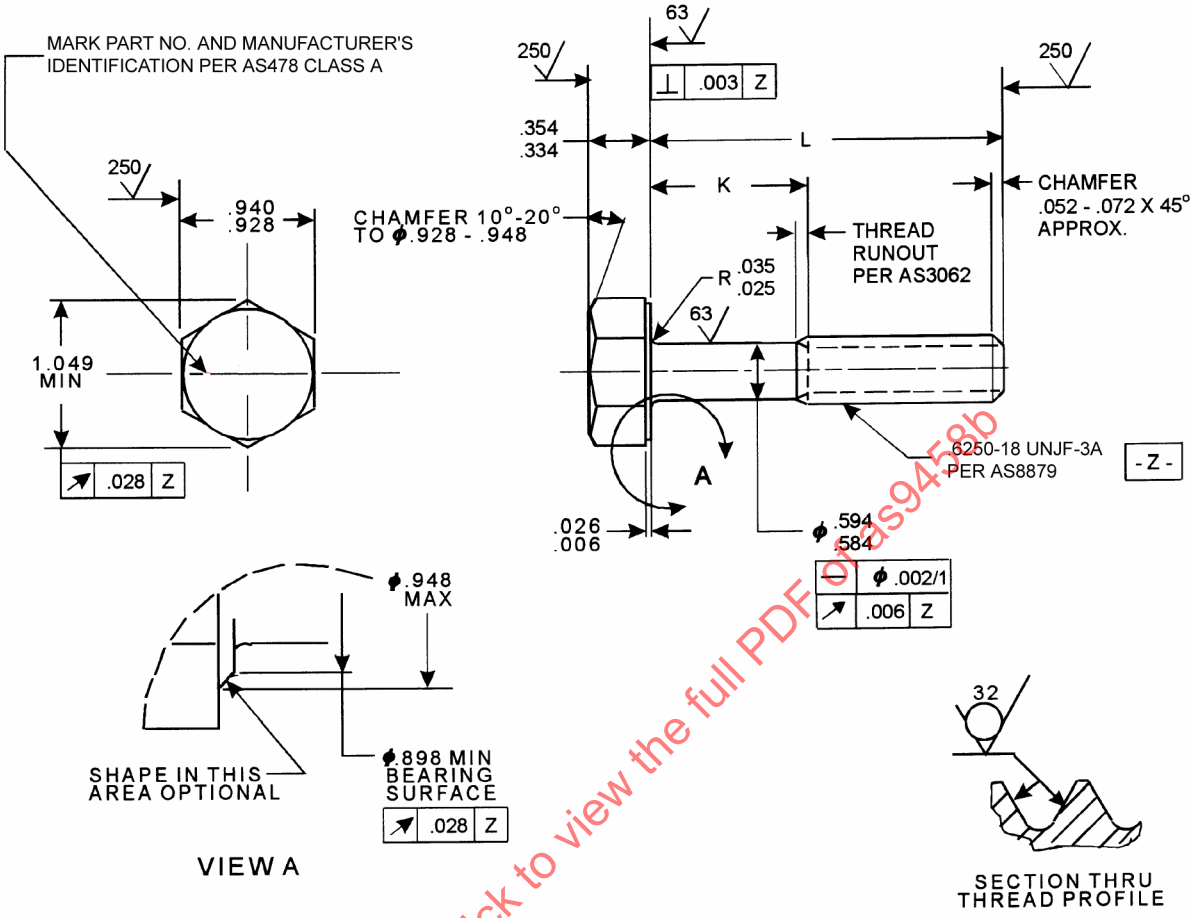


FIGURE 1 - BOLT

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100
MS9458-03	.928 - .948	.114 - .134	14.53
MS9458-04	.990 - 1.010	.114 - .134	15.01
MS9458-05	1.052 - 1.072	.114 - .134	15.49
MS9458-06	1.115 - 1.135	.114 - .134	15.97
MS9458-07	1.178 - 1.198	.114 - .134	16.45
MS9458-08	1.240 - 1.260	.114 - .134	16.93
MS9458-09	1.302 - 1.322	.114 - .134	17.41
MS9458-10	1.365 - 1.385	.114 - .134	17.89
MS9458-11	1.428 - 1.448	.114 - .134	18.36
MS9458-12	1.490 - 1.510	.114 - .134	18.84
MS9458-13	1.552 - 1.572	.114 - .134	19.32
MS9458-14	1.615 - 1.635	.125 - .145	19.80
MS9458-15	1.678 - 1.698	.128 - .188	20.28
MS9458-16	1.740 - 1.760	.190 - .250	20.76
MS9458-17	1.802 - 1.822	.252 - .312	21.24
MS9458-18	1.865 - 1.885	.315 - .375	21.71
MS9458-19	1.990 - 2.010	.440 - .500	22.67
MS9458-20	2.115 - 2.135	.565 - .625	23.63
MS9458-21	2.240 - 2.260	.690 - .750	24.59
MS9458-22	2.365 - 2.385	.815 - .875	25.54
MS9458-23	2.490 - 2.510	.940 - 1.000	26.50
MS9458-24	2.615 - 2.635	1.065 - 1.125	27.46
MS9458-25	2.740 - 2.760	1.190 - 1.250	28.41
MS9458-26	2.865 - 2.885	1.315 - 1.375	29.37
MS9458-27	2.990 - 3.010	1.440 - 1.500	30.33
MS9458-28	3.115 - 3.135	1.565 - 1.625	31.28
MS9458-29	3.240 - 3.260	1.690 - 1.750	32.24

PART NO.	L	K	APPROX. MASS LB/100
MS9458-30	3.365 - 3.385	1.815 - 1.875	33.20
MS9458-31	3.490 - 3.510	1.940 - 2.000	34.16
MS9458-32	3.615 - 3.635	2.065 - 2.125	35.11
MS9458-33	3.740 - 3.760	2.190 - 2.250	36.07
MS9458-34	3.865 - 3.885	2.315 - 2.375	37.03
MS9458-35	3.990 - 4.010	2.440 - 2.500	37.98
MS9458-36	4.115 - 4.132	2.565 - 2.625	38.94
MS9458-37	4.240 - 4.260	2.690 - 2.750	39.90
MS9458-38	4.365 - 4.385	2.815 - 2.875	40.86
MS9458-39	4.490 - 4.510	2.940 - 3.000	41.81
MS9458-40	4.615 - 4.635	3.065 - 3.125	42.77
MS9458-41	4.740 - 4.760	3.190 - 3.250	43.73
MS9458-42	4.865 - 4.885	3.315 - 3.375	44.68
MS9458-43	4.990 - 5.010	3.440 - 3.500	45.64
MS9458-44	5.115 - 5.135	3.565 - 3.625	46.60
MS9458-45	5.240 - 5.260	3.690 - 3.750	47.55
MS9458-46	5.365 - 5.385	3.815 - 3.875	48.51
MS9458-47	5.490 - 5.510	3.940 - 4.000	49.47
MS9458-48	5.615 - 5.635	4.065 - 4.125	50.43
MS9458-49	5.740 - 5.760	4.190 - 4.250	51.38
MS9458-50	5.865 - 5.885	4.315 - 4.375	52.34
MS9458-51	5.990 - 6.010	4.440 - 4.500	53.30

NOTES:

1. MATERIAL: LOW ALLOY STEEL AMS 6304 (UNS K14675).
2. PROCUREMENT SPECIFICATION: AS7455.
3. HARDNESS: 42-46 HRC.
4. FINISH: DIFFUSED NICKEL-CADMIUM PLATE AMS 2416. DIMENSIONS ARE AFTER PLATING. CONTACT POINTS PERMISSIBLE. PD MAY BE REDUCED .0012 MAXIMUM BEFORE PLATING.
5. MAGNETIC PARTICLE INSPECTION PER ASTM E 1444 BEFORE PLATING.
6. INCOMPLETE THREADS NOT TO ENTER FILLET.
7. SURFACE TEXTURE: SYMBOLS PER ASME Y14.36M. REQUIREMENTS PER ASME B46.1. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES Ra.
8. BREAK SHARP EDGES .003-.015, UNLESS OTHERWISE SPECIFIED.
9. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982 (ASME PUBLICATION).