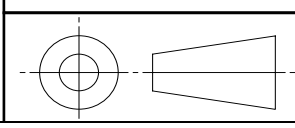


REV. B	FEDERAL SUPPLY CLASS 5306	
	RATIONALE THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY. THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9458B, AMENDMENT 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY 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.	
AS9458	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
AS9458 SHEET 1 OF 4		REV. B

SAENORM.COM : Click to view the full PDF of as9458

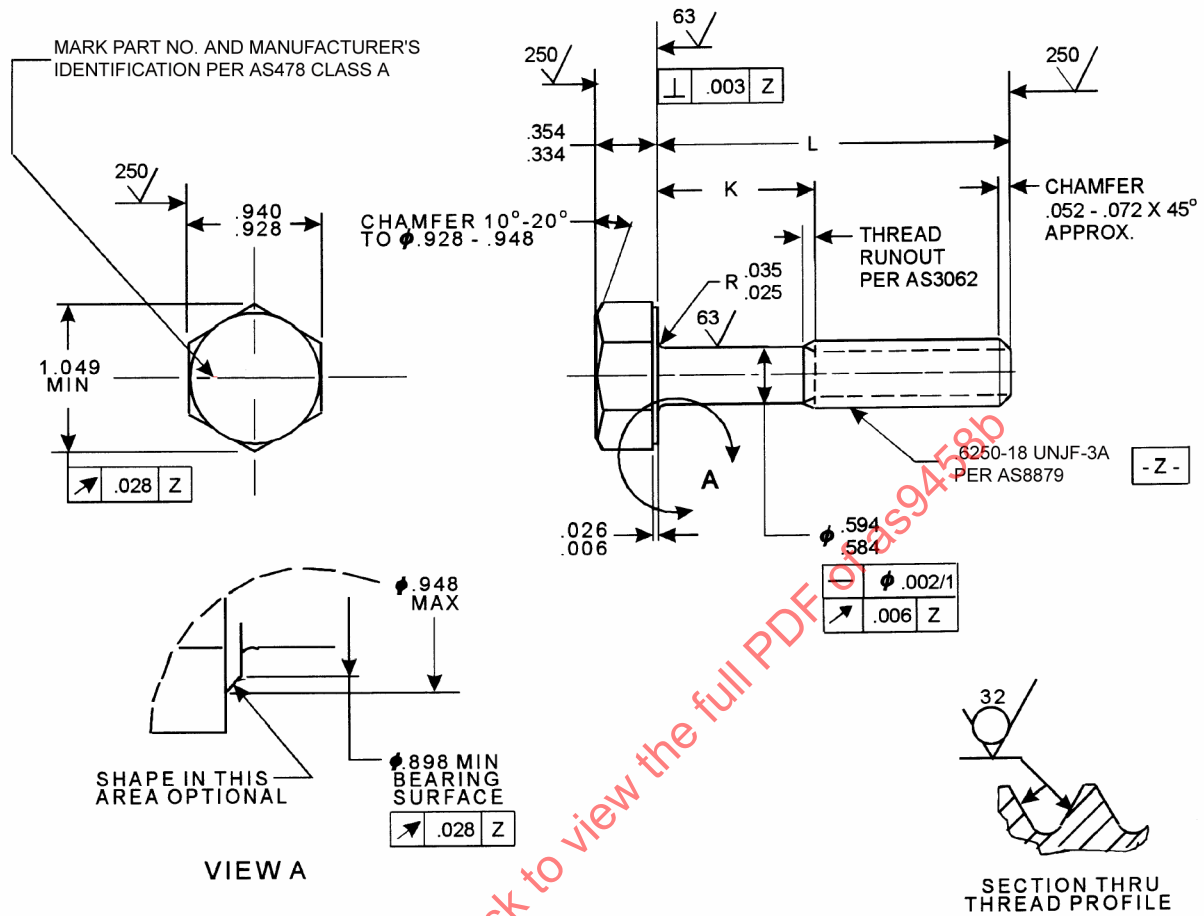


TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100	PART NO.	L	K	APPROX. MASS LB/100
MS9458-03	.928 - .948	.114 - .134	14.53	MS9458-30	3.365 - 3.385	1.815 - 1.875	33.20
MS9458-04	.990 - 1.010	.114 - .134	15.01	MS9458-31	3.490 - 3.510	1.940 - 2.000	34.16
MS9458-05	1.052 - 1.072	.114 - .134	15.49	MS9458-32	3.615 - 3.635	2.065 - 2.125	35.11
MS9458-06	1.115 - 1.135	.114 - .134	15.97	MS9458-33	3.740 - 3.760	2.190 - 2.250	36.07
MS9458-07	1.178 - 1.198	.114 - .134	16.45	MS9458-34	3.865 - 3.885	2.315 - 2.375	37.03
MS9458-08	1.240 - 1.260	.114 - .134	16.93	MS9458-35	3.990 - 4.010	2.440 - 2.500	37.98
MS9458-09	1.302 - 1.322	.114 - .134	17.41	MS9458-36	4.115 - 4.132	2.565 - 2.625	38.94
MS9458-10	1.365 - 1.385	.114 - .134	17.89	MS9458-37	4.240 - 4.260	2.690 - 2.750	39.90
MS9458-11	1.428 - 1.448	.114 - .134	18.36	MS9458-38	4.365 - 4.385	2.815 - 2.875	40.86
MS9458-12	1.490 - 1.510	.114 - .134	18.84	MS9458-39	4.490 - 4.510	2.940 - 3.000	41.81
MS9458-13	1.552 - 1.572	.114 - .134	19.32	MS9458-40	4.615 - 4.635	3.065 - 3.125	42.77
MS9458-14	1.615 - 1.635	.125 - .145	19.80	MS9458-41	4.740 - 4.760	3.190 - 3.250	43.73
MS9458-15	1.678 - 1.698	.128 - .188	20.28	MS9458-42	4.865 - 4.885	3.315 - 3.375	44.68
MS9458-16	1.740 - 1.760	.190 - .250	20.76	MS9458-43	4.990 - 5.010	3.440 - 3.500	45.64
MS9458-17	1.802 - 1.822	.252 - .312	21.24	MS9458-44	5.115 - 5.135	3.565 - 3.625	46.60
MS9458-18	1.865 - 1.885	.315 - .375	21.71	MS9458-45	5.240 - 5.260	3.690 - 3.750	47.55
MS9458-19	1.990 - 2.010	.440 - .500	22.67	MS9458-46	5.365 - 5.385	3.815 - 3.875	48.51
MS9458-20	2.115 - 2.135	.565 - .625	23.63	MS9458-47	5.490 - 5.510	3.940 - 4.000	49.47
MS9458-21	2.240 - 2.260	.690 - .750	24.59	MS9458-48	5.615 - 5.635	4.065 - 4.125	50.43
MS9458-22	2.365 - 2.385	.815 - .875	25.54	MS9458-49	5.740 - 5.760	4.190 - 4.250	51.38
MS9458-23	2.490 - 2.510	.940 - 1.000	26.50	MS9458-50	5.865 - 5.885	4.315 - 4.375	52.34
MS9458-24	2.615 - 2.635	1.065 - 1.125	27.46	MS9458-51	5.990 - 6.010	4.440 - 4.500	53.30
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				

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).