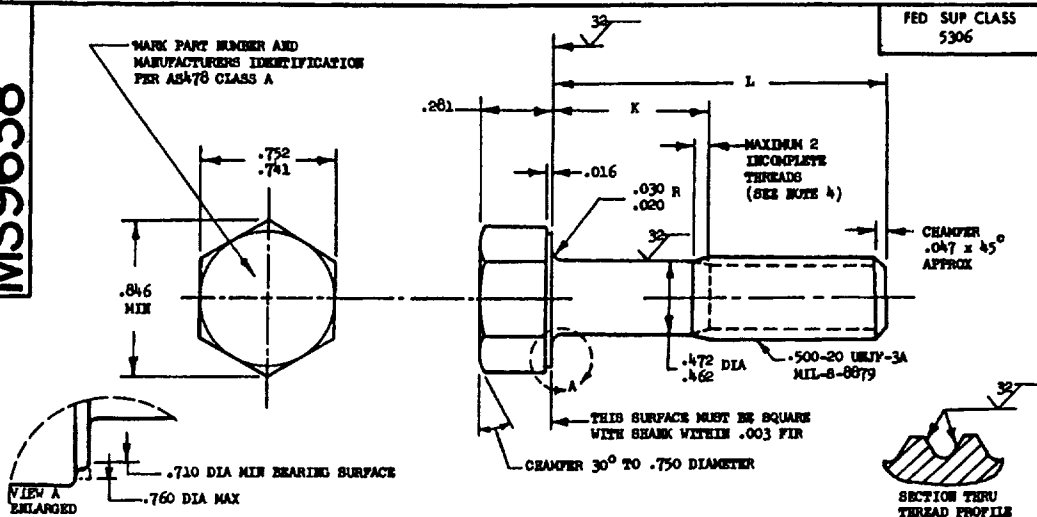


Review activities: USAF-82

**MS9638**

PART NUMBER	L	K	APPROX WEIGHT LB/100	PART NUMBER	L	K	APPROX WEIGHT LB/100
MS9638-03	.750	.105-.125	4.53	MS9638-31	3.000	1.690-1.750	10.71
MS9638-04	.812	.105-.125	4.71	MS9638-32	3.125	1.815-1.875	11.10
MS9638-05	.875	.105-.125	4.89	MS9638-33	3.250	1.940-2.000	11.44
MS9638-06	.938	.105-.125	5.07	MS9638-34	3.375	2.065-2.125	11.79
MS9638-07	1.000	.105-.125	5.24	MS9638-35	3.500	2.190-2.250	12.13
MS9638-08	1.062	.105-.125	5.42	MS9638-36	3.625	2.315-2.375	12.47
MS9638-09	1.125	.105-.125	5.59	MS9638-37	3.750	2.440-2.500	12.82
MS9638-10	1.188	.105-.125	5.76	MS9638-38	3.875	2.565-2.625	13.16
MS9638-11	1.250	.105-.125	5.93	MS9638-39	4.000	2.690-2.750	13.50
MS9638-12	1.312	.105-.125	6.11	MS9638-40	4.125	2.815-2.875	13.85
MS9638-13	1.375	.105-.125	6.28	MS9638-41	4.250	2.940-3.000	14.20
MS9638-14	1.438	.128-.188	6.45	MS9638-42	4.375	3.065-3.125	14.54
MS9638-15	1.500	.190-.250	6.62	MS9638-43	4.500	3.190-3.250	14.88
MS9638-16	1.562	.252-.312	6.79	MS9638-44	4.625	3.315-3.375	15.22
MS9638-17	1.625	.315-.375	6.96	MS9638-45	4.750	3.440-3.500	15.57
MS9638-18	1.688	.378-.438	7.14	MS9638-46	4.875	3.565-3.625	15.92
MS9638-19	1.750	.440-.500	7.31	MS9638-47	5.000	3.690-3.750	16.26
MS9638-20	1.812	.502-.562	7.48	MS9638-48	5.125	3.815-3.875	16.60
MS9638-21	1.875	.565-.625	7.65	MS9638-49	5.250	3.940-4.000	16.94
MS9638-22	1.938	.628-.688	7.82	MS9638-50	5.375	4.065-4.125	17.29
MS9638-23	2.000	.690-.750	8.00	MS9638-51	5.500	4.190-4.250	17.63
MS9638-24	2.125	.815-.875	8.34	MS9638-52	5.625	4.315-4.375	17.98
MS9638-25	2.250	.940-1.000	8.69	MS9638-53	5.750	4.440-4.500	18.32
MS9638-26	2.375	1.065-1.125	9.04	MS9638-54	5.875	4.565-4.625	18.66
MS9638-27	2.500	1.190-1.250	9.38	MS9638-55	6.000	4.690-4.750	19.01
MS9638-28	2.625	1.315-1.375	9.72				
MS9638-29	2.750	1.440-1.500	10.06				
MS9638-30	2.875	1.565-1.625	10.44				

1. SHANK SHALL BE STRAIGHT WITHIN .002 TOTAL PER INCH OF BOLT LENGTH.
2. THE CONCENTRICITY OF THREAD PD IN RELATION TO THE SHANK SHALL BE WITHIN .006 FIR.
3. THE CONCENTRICITY OF THE SHANK IN RELATION TO THE WASHER FACE DIAMETER AND HEXAGON SHALL BE WITHIN .003 FIR.
4. INCOMPLETE THREADS NOT TO ENTER FILLET.
5. MATERIAL TITANIUM AMS 4967.
6. HARDNESS: ROCKWELL C36-42.
7. MANUFACTURING SPECIFICATION: AMS 7461, EXCEPT MATERIAL AS NOTED.
8. FLUORESCENT PENETRANT INSPECTION PER AMS 2645.
9. SURFACE TEXTURE USAS B46.1-1962. UNLESS OTHERWISE SPECIFIED, SURFACES TO BE 125 MICROINCHES EXCEPT UPSET HEAD.
10. BREAK SHARP EDGES .003-.015 UNLESS OTHERWISE SPECIFIED.
11. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: LINEAR DIMENSIONS  $\pm .010$ , ANGULAR DIMENSIONS  $\pm 5^\circ$ .
12. DO NOT USE UNASSIGNED PART NUMBERS

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THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE MILITARY SERVICES BY THE GAE AEROSPACE PART STANDARDS DIVISION.

PA USAF-II	INTERNATIONAL INTEREST	TITLE	<b>MILITARY STANDARD</b> <b>MS9638</b>
Other Cust NAVY-AS	ASOC AIR STD 1772	BOLT, MACHINE - HEXAGON HEAD, PD SHANK, TITANIUM AMS 4967, .500-20 UNF-3A	
PROCUREMENT SPECIFICATION NONE		SUPERSEDES	SHEET 1 OF 1

DD FORM 1 MAY 61 672-1

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

This military standard is approved by the Department of Defense and is mandatory on all activities. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 3 MAR 70 REVISED