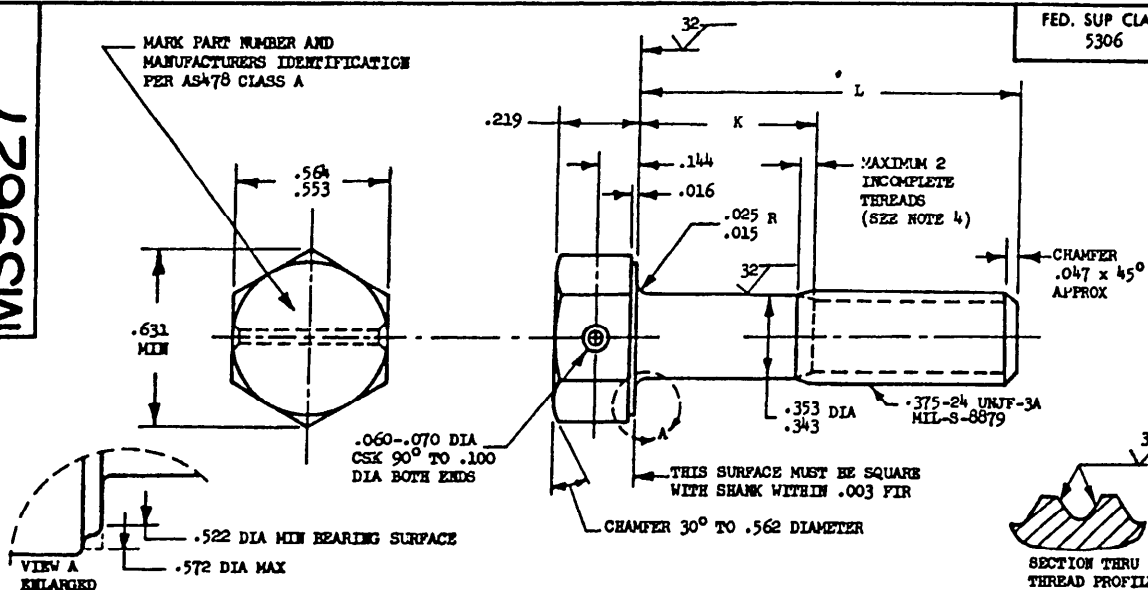


MARK PART NUMBER AND  
MANUFACTURERS IDENTIFICATION  
PER AS478 CLASS A



**Review Activities:**  
**AIR FORCE-82**  
**DLA-19**

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

PART NUMBER	L	K	APPROX WEIGHT LB/100	PART NUMBER	L	K	APPROX WEIGHT LB/100
MS9627-03	.562	.088-.108	1.95	MS9627-31	2.625	1.565-1.625	5.11
MS9627-04	.625	.088-.108	2.05	MS9627-32	2.750	1.690-1.750	5.30
MS9627-05	.688	.088-.108	2.15	MS9627-33	2.875	1.815-1.875	5.49
MS9627-06	.750	.088-.108	2.25	MS9627-34	3.000	1.940-2.000	5.68
MS9627-07	.812	.088-.108	2.35	MS9627-35	3.125	2.065-2.125	5.87
MS9627-08	.875	.088-.108	2.43	MS9627-36	3.250	2.190-2.250	6.07
MS9627-09	.938	.088-.108	2.53	MS9627-37	3.375	2.315-2.375	6.26
MS9627-10	1.000	.088-.108	2.63	MS9627-38	3.500	2.440-2.500	6.45
MS9627-11	1.062	.088-.108	2.72	MS9627-39	3.625	2.565-2.625	6.64
MS9627-12	1.125	.088-.125	2.81	MS9627-40	3.750	2.690-2.750	6.83
MS9627-13	1.188	.128-.168	2.91	MS9627-41	3.875	2.815-2.875	7.02
MS9627-14	1.250	.190-.250	3.01	MS9627-42	4.000	2.940-3.000	7.21
MS9627-15	1.312	.252-.312	3.10	MS9627-43	4.125	3.065-3.125	7.41
MS9627-16	1.375	.315-.375	3.19	MS9627-44	4.250	3.190-3.250	7.60
MS9627-17	1.438	.378-.438	3.28	MS9627-45	4.375	3.315-3.375	7.79
MS9627-18	1.500	.440-.500	3.38	MS9627-46	4.500	3.440-3.500	7.98
MS9627-19	1.562	.502-.562	3.48	MS9627-47	4.625	3.565-3.625	8.17
MS9627-20	1.625	.565-.625	3.58	MS9627-48	4.750	3.690-3.750	8.35
MS9627-21	1.688	.628-.688	3.67	MS9627-49	4.875	3.815-3.875	8.55
MS9627-22	1.750	.690-.750	3.77	MS9627-50	5.000	3.940-4.000	8.75
MS9627-23	1.812	.752-.812	3.87	MS9627-51	5.125	4.065-4.125	8.94
MS9627-24	1.875	.815-.875	3.96	MS9627-52	5.250	4.190-4.250	9.13
MS9627-25	1.938	.878-.938	4.06	MS9627-53	5.375	4.315-4.375	9.32
MS9627-26	2.000	.940-1.000	4.15	MS9627-54	5.500	4.440-4.500	9.51
MS9627-27	2.125	1.065-1.125	4.35	MS9627-55	5.625	4.565-4.625	9.70
MS9627-28	2.250	1.190-1.250	4.54	MS9627-56	5.750	4.690-4.750	9.89
MS9627-29	2.375	1.315-1.375	4.73	MS9627-57	5.875	4.815-4.875	10.09
MS9627-30	2.500	1.440-1.500	4.92	MS9627-58	6.000	4.940-5.000	10.28

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 .017 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 UPST 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.
- (B) REINSTATED 15 AUG 84

⑧ REINSTATED 15 AUG 84

AS & AMS ARE SOCIETY OF AUTOMOTIVE ENGINEERS, INC. PUBLICATIONS.  
THIS STANDARD WAS DEVELOPED COOPERATIVELY WITH THE MILITARY SERVICES BY THE SAE AEROSPACE PART STANDARDS DIVISION.

P.A. AS INTERNATIONAL INTEREST		TITLE	MILITARY STANDARD
Other Govt A V (B) 99	(B)	BOLT, MACHINE - HEXAGON HEAD, DRILLED, 1 HOLE, PD SEARK, TITANIUM AMS 4967, .375-24 UNJF-3A	MS9627
PROCUREMENT SPECIFICATION NONE		SUPERSEDES:	PAGE 1 OF 1