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**REV.  
C**

**AS9522**

FEDERAL SUPPLY CLASS  
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**RATIONALE**

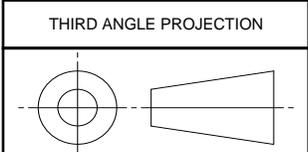
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CUSTODIAN: E-25



**AEROSPACE STANDARD**  
BOLT, MACHINE - HEXAGON HEAD, STEEL, CADMIUM PLATED, UNS G87400, 125 KSI MIN, .4375-20 UNJF-3A

**AS9522**

**REV.  
C**

ISSUED 1999-04 REVISED 2007-07 STABILIZED 2015-06

NOTICE

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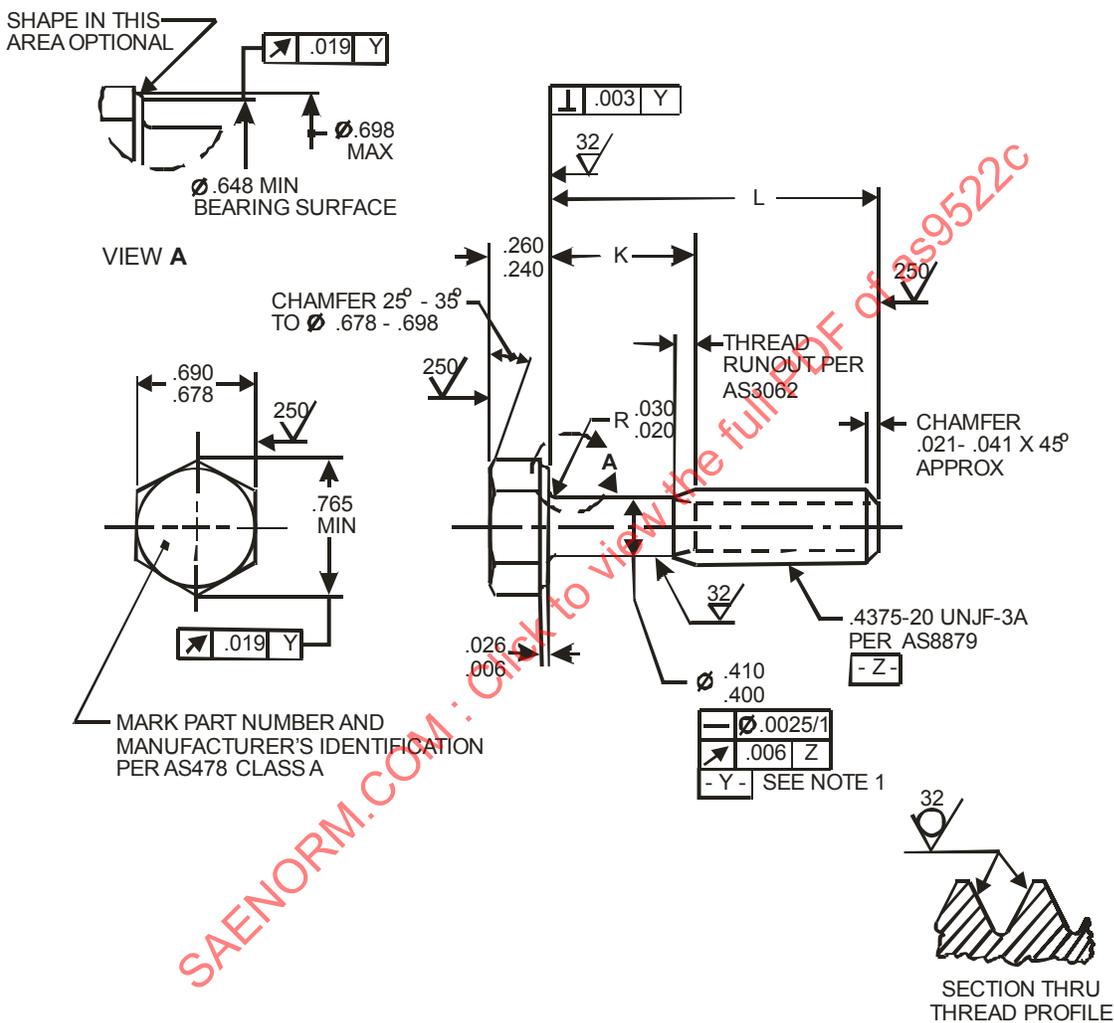


FIGURE 1 - BOLT

	<b>AEROSPACE STANDARD</b>	<b>AS9522</b> SHEET 1 OF 3	<b>REV.</b> <b>C</b>
	BOLT, MACHINE - HEXAGON HEAD, STEEL, CADMIUM PLATED, UNS G87400, 125 KSI MIN, .4375-20 UNJF-3A		

TABLE 1 - PART NUMBERS AND DIMENSIONS

PART NO.	L	K	APPROX. MASS LB/100	PART NO.	L	K	APPROX. MASS LB/100
MS9522-04	.678- .698	.105- .125	5.78	MS9522-31	2.990-3.010	1.815-1.875	14.20
MS9522-05	.740- .760	.105- .125	6.01	MS9522-32	3.115-3.135	1.940-2.000	14.65
MS9522-06	.802- .822	.105- .125	6.24	MS9522-33	3.240-3.260	2.065-2.125	15.11
MS9522-07	.865- .885	.105- .125	6.47	MS9522-34	3.365-3.385	2.190-2.250	15.56
MS9522-08	.928- .948	.105- .125	6.69	MS9522-35	3.490-3.510	2.315-2.375	16.02
MS9522-09	.990-1.010	.105- .125	6.92	MS9522-36	3.615-3.635	2.440-2.500	16.47
MS9522-10	1.052-1.072	.105- .125	7.15	MS9522-37	3.740-3.760	2.565-2.625	16.93
MS9522-11	1.115-1.135	.105- .125	7.37	MS9522-38	3.865-3.885	2.690-2.750	17.38
MS9522-12	1.178-1.198	.105- .125	7.60	MS9522-39	3.990-4.010	2.815-2.875	17.84
MS9522-13	1.240-1.260	.105- .125	7.83	MS9522-40	4.115-4.135	2.940-3.000	18.29
MS9522-14	1.302-1.322	.128- .188	8.06	MS9522-41	4.240-4.260	3.065-3.125	18.74
MS9522-15	1.365-1.385	.190- .250	8.28	MS9522-42	4.365-4.385	3.190-3.250	19.20
MS9522-16	1.428-1.448	.252- .312	8.51	MS9522-43	4.490-4.510	3.315-3.375	19.65
MS9522-17	1.490-1.510	.315- .375	8.74	MS9522-44	4.615-4.635	3.440-3.500	20.11
MS9522-18	1.552-1.572	.378- .438	8.97	MS9522-45	4.740-4.760	3.565-3.625	20.56
MS9522-19	1.615-1.635	.440- .500	9.19	MS9522-46	4.865-4.885	3.690-3.750	21.02
MS9522-20	1.678-1.698	.502- .562	9.42	MS9522-47	4.990-5.010	3.815-3.875	21.47
MS9522-21	1.740-1.760	.565- .625	9.65	MS9522-48	5.115-5.135	3.940-4.000	21.93
MS9522-22	1.865-1.885	.690- .750	10.10	MS9522-49	5.240-5.260	4.065-4.125	22.38
MS9522-23	1.990-2.010	.815- .875	10.56	MS9522-50	5.365-5.385	4.190-4.250	22.84
MS9522-24	2.115-2.135	.940-1.000	11.01	MS9522-51	5.490-5.510	4.315-4.375	23.29
MS9522-25	2.240-2.260	1.065-1.125	11.47	MS9522-52	5.615-5.635	4.440-4.500	23.75
MS9522-26	2.365-2.385	1.190-1.250	11.92	MS9522-53	5.740-5.760	4.565-4.625	24.20
MS9522-27	2.490-2.510	1.315-1.375	12.38	MS9522-54	5.865-5.885	4.690-4.750	24.66
MS9522-28	2.615-2.635	1.440-1.500	12.83	MS9522-55	5.990-6.010	4.815-4.875	25.11
MS9522-29	2.740-2.760	1.565-1.625	13.29				
MS9522-30	2.865-2.885	1.690-1.750	13.74				

NOTES:

NOTICE

THIS DOCUMENT REFERENCES A PART WHICH CONTAINS CADMIUM AS A PLATING MATERIAL. CONSULT LOCAL OFFICIALS IF YOU HAVE QUESTIONS CONCERNING CADMIUM'S USE.

- FOR PART NUMBERS MS9522-04 THRU MS9522-24 THE THREAD PD (DATUM  $\boxed{Z}$ ) SHALL REPLACE DATUM  $\boxed{Y}$ .
- MATERIAL: LOW ALLOY STEEL AMS 6322 (UNS G87400).
- PROCUREMENT SPECIFICATION: AS7452.
- HEAD TO SHANK FILLET RADIUS: FOR PART NUMBERS MS9522-16 AND LARGER, THE HEAD TO SHANK FILLET SHALL BE COLD ROLLED AFTER HEAT TREATMENT TO REMOVE ALL VISUAL EVIDENCE OF GRINDING OR TOOL MARKS.
- FINISH: CADMIUM PLATE PER AMS 2400. DIMENSIONS ARE AFTER PLATING.
- MAGNETIC PARTICLE INSPECTION PER ASTM E 1444 BEFORE PLATING.

	<b>AEROSPACE STANDARD</b>	<b>AS9522</b> SHEET 2 OF 3	<b>REV.</b> <b>C</b>
	BOLT, MACHINE - HEXAGON HEAD, STEEL, CADMIUM PLATED, UNS G87400, 125 KSI MIN, .4375-20 UNJF-3A		