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AS9687

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 MS9687, NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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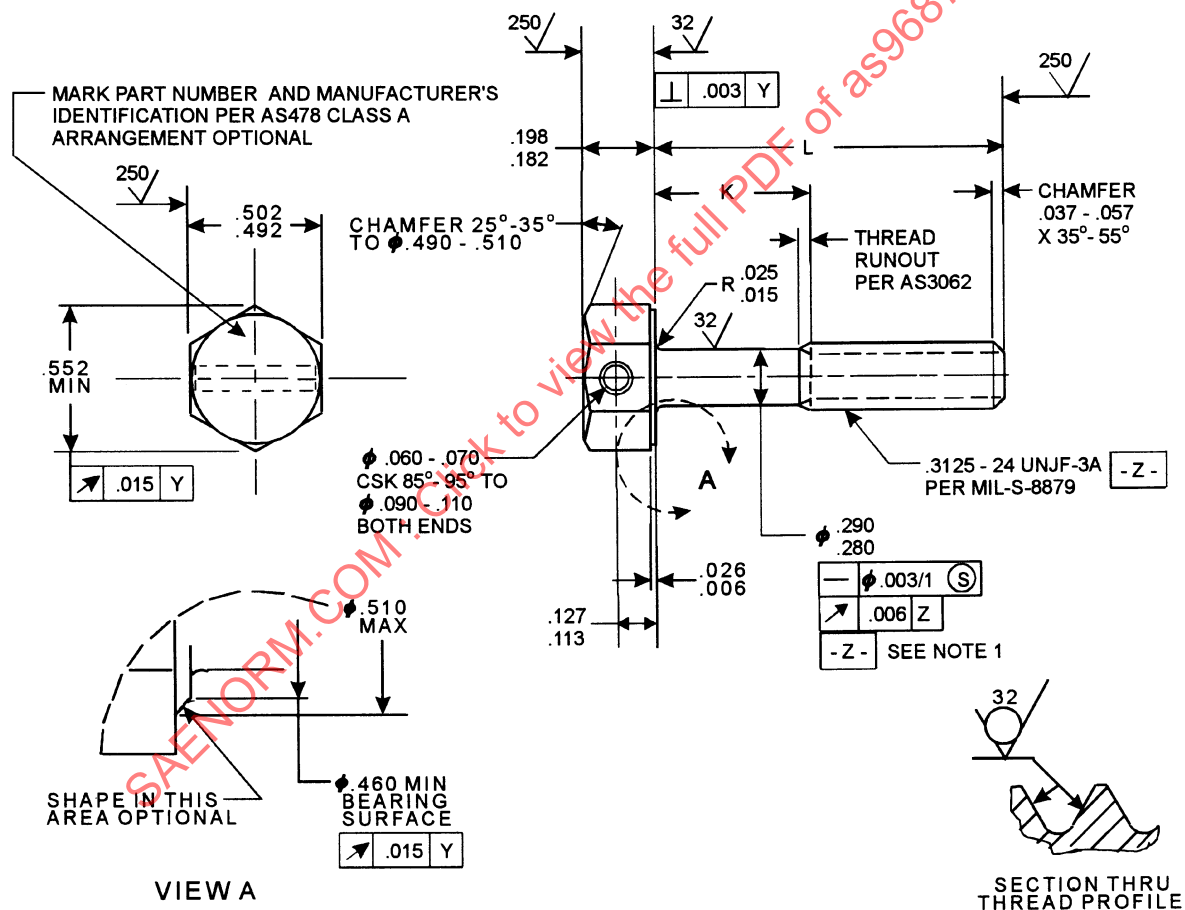


FIGURE 1 - BOLT

PREPARED BY SAE COMMITTEE E-25, GENERAL STANDARDS FOR AEROSPACE & PROPULSION SYSTEMS

**SAE** The Engineering Society  
For Advancing Mobility  
Land Sea Air and Space  
INTERNATIONAL  
400 Commonwealth Drive, Warrendale, PA 15096-0001

**AEROSPACE STANDARD**  
(R) BOLT, MACHINE - HEXAGON HEAD, DRILLED, 1 HOLE,  
PD SHANK, STEEL, UNS K14675, DIFFUSED NICKEL-  
CADMIUM PLATE, 195 KSI MIN, .3125-24 UNJF-3A

**AS9687**  
SHEET 1 OF 3

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

REV.  
A

AS9687

TABLE 1 - PART NUMBERS AND DIMENSIONS

| PART NO.  | L             | K             | APPROX.<br>MASS<br>LB/100 | PART NO.  | L             | K             | APPROX.<br>MASS<br>LB/100 |
|-----------|---------------|---------------|---------------------------|-----------|---------------|---------------|---------------------------|
| MS9687-04 | .490 - .510   | .088 - .108   | 2.12                      | MS9687-34 | 2.740 - 2.760 | 1.815 - 1.875 | 6.17                      |
| MS9687-05 | .552 - .572   | .088 - .108   | 2.23                      | MS9687-35 | 2.865 - 2.885 | 1.940 - 2.000 | 6.40                      |
| MS9687-06 | .615 - .635   | .088 - .108   | 2.34                      | MS9687-36 | 2.990 - 3.010 | 2.065 - 2.125 | 6.62                      |
| MS9687-07 | .678 - .698   | .088 - .108   | 2.45                      | MS9687-37 | 3.115 - 3.135 | 2.190 - 2.250 | 6.85                      |
| MS9687-08 | .740 - .760   | .088 - .108   | 2.56                      | MS9687-38 | 3.240 - 3.260 | 2.315 - 2.375 | 7.08                      |
| MS9687-09 | .802 - .822   | .088 - .108   | 2.67                      | MS9687-39 | 3.365 - 3.385 | 2.440 - 2.500 | 7.30                      |
| MS9687-10 | .865 - .885   | .088 - .108   | 2.79                      | MS9687-40 | 3.490 - 3.510 | 2.565 - 2.625 | 7.53                      |
| MS9687-11 | .928 - .948   | .088 - .108   | 2.90                      | MS9687-41 | 3.615 - 3.635 | 2.690 - 2.750 | 7.75                      |
| MS9687-12 | .990 - 1.010  | .088 - .125   | 3.01                      | MS9687-42 | 3.740 - 3.760 | 2.815 - 2.875 | 7.98                      |
| MS9687-13 | 1.052 - 1.072 | .128 - .188   | 3.13                      | MS9687-43 | 3.865 - 3.885 | 2.940 - 3.000 | 8.20                      |
| MS9687-14 | 1.115 - 1.135 | .190 - .250   | 3.24                      | MS9687-44 | 3.990 - 4.010 | 3.065 - 3.125 | 8.43                      |
| MS9687-15 | 1.178 - 1.198 | .252 - .312   | 3.35                      | MS9687-45 | 4.115 - 4.135 | 3.190 - 3.250 | 8.66                      |
| MS9687-16 | 1.240 - 1.260 | .315 - .375   | 3.46                      | MS9687-46 | 4.240 - 4.260 | 3.315 - 3.375 | 8.88                      |
| MS9687-17 | 1.302 - 1.322 | .376 - .438   | 3.58                      | MS9687-47 | 4.365 - 4.385 | 3.440 - 3.500 | 9.11                      |
| MS9687-18 | 1.365 - 1.385 | .440 - .500   | 3.69                      | MS9687-48 | 4.490 - 4.510 | 3.565 - 3.625 | 9.33                      |
| MS9687-19 | 1.428 - 1.448 | .502 - .562   | 3.80                      | MS9687-49 | 4.615 - 4.635 | 3.690 - 3.750 | 9.56                      |
| MS9687-20 | 1.490 - 1.510 | .565 - .625   | 3.92                      | MS9687-50 | 4.740 - 4.760 | 3.815 - 3.875 | 9.78                      |
| MS9687-21 | 1.552 - 1.572 | .628 - .688   | 4.03                      | MS9687-51 | 4.865 - 4.885 | 3.940 - 4.000 | 10.01                     |
| MS9687-22 | 1.615 - 1.635 | .690 - .750   | 4.14                      | MS9687-52 | 4.990 - 5.010 | 4.065 - 4.125 | 10.24                     |
| MS9687-23 | 1.678 - 1.698 | .752 - .812   | 4.25                      | MS9687-53 | 5.115 - 5.135 | 4.190 - 4.250 | 10.46                     |
| MS9687-24 | 1.740 - 1.760 | .815 - .875   | 4.37                      | MS9687-54 | 5.240 - 5.260 | 4.315 - 4.375 | 10.69                     |
| MS9687-25 | 1.802 - 1.822 | .878 - .938   | 4.48                      | MS9687-55 | 5.365 - 5.385 | 4.440 - 4.500 | 10.91                     |
| MS9687-26 | 1.865 - 1.885 | .940 - 1.000  | 4.59                      | MS9687-56 | 5.490 - 5.510 | 4.565 - 4.625 | 11.14                     |
| MS9687-27 | 1.928 - 1.948 | 1.002 - 1.062 | 4.71                      | MS9687-57 | 5.615 - 5.635 | 4.690 - 4.750 | 11.36                     |
| MS9687-28 | 1.990 - 2.010 | 1.065 - 1.125 | 4.82                      | MS9687-58 | 5.740 - 5.760 | 4.815 - 4.875 | 11.59                     |
| MS9687-29 | 2.115 - 2.135 | 1.190 - 1.250 | 5.04                      | MS9687-59 | 5.865 - 5.885 | 4.940 - 5.000 | 11.81                     |
| MS9687-30 | 2.240 - 2.260 | 1.315 - 1.375 | 5.27                      | MS9687-60 | 5.990 - 6.010 | 5.065 - 5.125 | 12.04                     |
| MS9687-31 | 2.365 - 2.385 | 1.440 - 1.500 | 5.50                      |           |               |               |                           |
| MS9687-32 | 2.490 - 2.510 | 1.565 - 1.625 | 5.72                      |           |               |               |                           |
| MS9687-33 | 2.615 - 2.635 | 1.690 - 1.750 | 5.95                      |           |               |               |                           |

**AEROSPACE STANDARD**

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