

## NOTICE

ANY REQUIREMENTS ASSOCIATED WITH QUALIFIED PRODUCTS LISTS (QPL'S) MAY CONTINUE TO BE MANDATORY FOR DoD CONTRACTS. REQUIREMENTS RELATING TO QPL'S HAVE NOT BEEN ADOPTED BY SAE FOR THIS STANDARD AND ARE NOT PART OF THIS SAE DOCUMENT.



**REV.**  
**D**

## Documents

**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 |
|-----------|-------------|-------------|--------------------------|-----------|-------------|-------------|--------------------------|
| MS9160-06 | .740- .760  | <u>1</u> /  | 3.74                     | MS9160-32 | 2.990-3.010 | 1.940-2.000 | 9.80                     |
| MS9160-07 | .802- .822  | <u>1</u> /  | 3.90                     | MS9160-33 | 3.115-3.135 | 2.065-2.125 | 10.13                    |
| MS9160-08 | .865- .885  | <u>1</u> /  | 4.07                     | MS9160-34 | 3.240-3.260 | 2.190-2.250 | 10.47                    |
| MS9160-09 | .928- .948  | <u>1</u> /  | 4.24                     | MS9160-35 | 3.365-3.385 | 2.315-2.375 | 10.80                    |
| MS9160-10 | .990-1.010  | <u>1</u> /  | 4.41                     | MS9160-36 | 3.490-3.510 | 2.440-2.500 | 11.14                    |
| MS9160-11 | 1.052-1.072 | <u>1</u> /  | 4.58                     | MS9160-37 | 3.615-3.635 | 2.565-2.625 | 11.47                    |
| MS9160-12 | 1.115-1.135 | .065- .125  | 4.75                     | MS9160-38 | 3.740-3.760 | 2.690-2.750 | 11.80                    |
| MS9160-13 | 1.178-1.198 | .128- .188  | 4.91                     | MS9160-39 | 3.865-3.885 | 2.815-2.875 | 12.14                    |
| MS9160-14 | 1.240-1.260 | .190- .250  | 5.08                     | MS9160-40 | 3.990-4.010 | 2.940-3.000 | 12.47                    |
| MS9160-15 | 1.302-1.322 | .252- .312  | 5.25                     | MS9160-41 | 4.115-4.135 | 3.065-3.125 | 12.80                    |
| MS9160-16 | 1.365-1.385 | .315- .375  | 5.43                     | MS9160-42 | 4.240-4.260 | 3.190-3.250 | 13.13                    |
| MS9160-17 | 1.428-1.448 | .378- .438  | 5.60                     | MS9160-43 | 4.365-4.385 | 3.315-3.375 | 13.46                    |
| MS9160-18 | 1.490-1.510 | .440- .500  | 5.76                     | MS9160-44 | 4.490-4.510 | 3.440-3.500 | 13.89                    |
| MS9160-19 | 1.552-1.572 | .502- .562  | 5.93                     | MS9160-45 | 4.615-4.635 | 3.565-3.625 | 14.23                    |
| MS9160-20 | 1.615-1.635 | .565- .625  | 6.10                     | MS9160-46 | 4.740-4.760 | 3.690-3.750 | 14.56                    |
| MS9160-21 | 1.678-1.698 | .628- .688  | 6.27                     | MS9160-47 | 4.865-4.885 | 3.815-3.875 | 14.89                    |
| MS9160-22 | 1.740-1.760 | .690- .750  | 6.44                     | MS9160-48 | 4.990-5.010 | 3.940-4.000 | 15.23                    |
| MS9160-23 | 1.865-1.885 | .815- .875  | 6.77                     | MS9160-49 | 5.115-5.135 | 4.065-4.125 | 15.57                    |
| MS9160-24 | 1.990-2.010 | .940-1.000  | 7.11                     | MS9160-50 | 5.240-5.260 | 4.190-4.250 | 15.90                    |
| MS9160-25 | 2.115-2.135 | 1.065-1.125 | 7.44                     | MS9160-51 | 5.365-5.385 | 4.315-4.375 | 16.23                    |
| MS9160-26 | 2.240-2.260 | 1.190-1.250 | 7.78                     | MS9160-52 | 5.490-5.510 | 4.440-4.500 | 16.56                    |
| MS9160-27 | 2.365-2.385 | 1.315-1.375 | 8.11                     | MS9160-53 | 5.615-5.635 | 4.565-4.625 | 16.89                    |
| MS9160-28 | 2.490-2.510 | 1.440-1.500 | 8.44                     | MS9160-54 | 5.740-5.760 | 4.690-4.750 | 17.23                    |
| MS9160-29 | 2.615-2.635 | 1.565-1.625 | 8.78                     | MS9160-55 | 5.865-5.885 | 4.815-4.875 | 17.57                    |
| MS9160-30 | 2.740-2.760 | 1.690-1.750 | 9.12                     | MS9160-56 | 5.990-6.010 | 4.940-5.000 | 17.91                    |
| MS9160-31 | 2.865-2.885 | 1.815-1.875 | 9.46                     |           |             |             |                          |

1/ THREAD TO HEAD. MAXIMUM TWO INCOMPLETE THREADS.

|                                                                                     |                                                                                                                                   |                                 |                         |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|
|  | <b>AEROSPACE STANDARD</b>                                                                                                         | <b>AS91601™</b><br>SHEET 2 OF 3 | <b>REV.</b><br><b>D</b> |
|                                                                                     | BOLT, MACHINE - DOUBLE HEXAGON EXTENDED<br>WASHER HEAD, PD SHANK, BLACK OXIDE, STEEL,<br>UNS G87400, 125 KSI MIN, .3750-24 UNF-3A |                                 |                         |



**Documents**

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