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REV. C

AS9307

FEDERAL SUPPLY CLASS
5307

RATIONALE

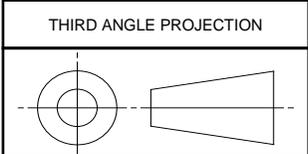
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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------|
| CUSTODIAN: E-25 | | PROCUREMENT SPECIFICATION: AS7452 | |
| | AEROSPACE STANDARD | | AS9307 |
| | STUD, SHOULDERED, STEPPED, HEX, WRENCHING, STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN, .2500-28 UNF-3A X .3750-24 UNF-3A | | |

ISSUED 1999-12 REVISED 2009-02 STABILIZED 2014-08

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9307B, NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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|  | AEROSPACE STANDARD | AS9307 SHEET 1 OF 7 | REV. C |
| | STUD, SHOULDERED, STEPPED, HEX, WRENCHING, STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN, .2500-28 UNF-3A X .3750-24 UNF-3A | | |

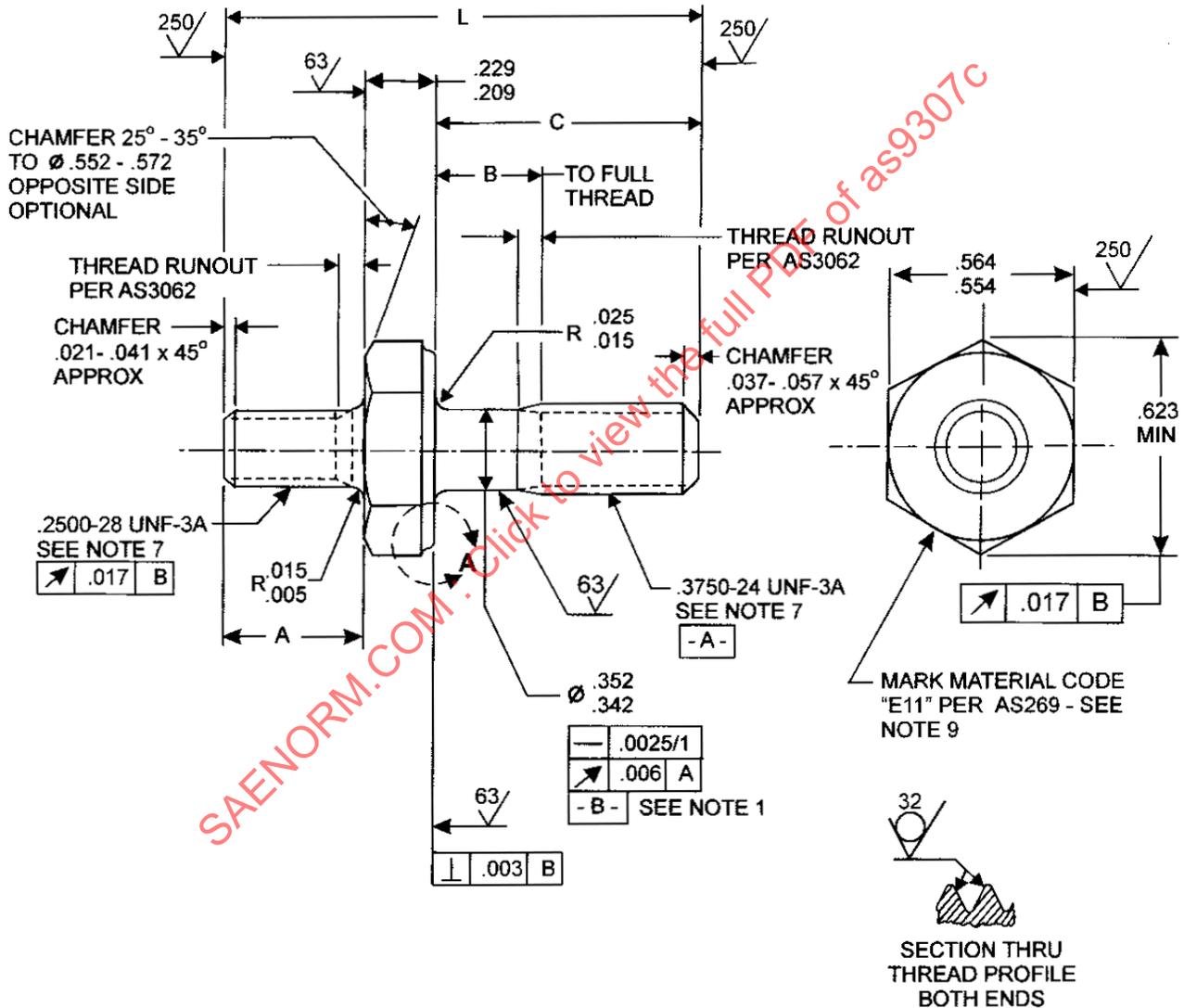
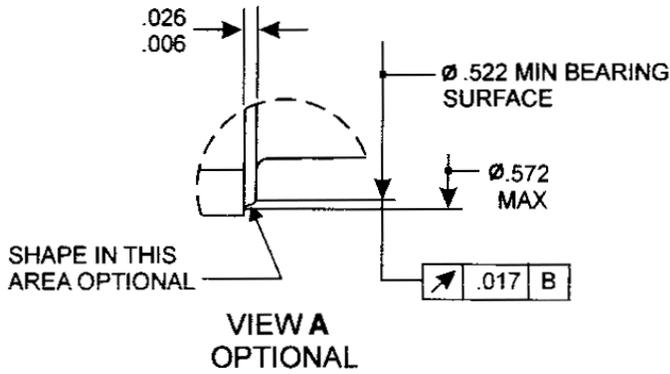


FIGURE 1 - STUD

| | | | |
|--|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------|
| | AEROSPACE STANDARD | AS9307 SHEET 2 OF 7 | REV. C |
| | STUD, SHOULDERED, STEPPED, HEX, WRENCHING, STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN, .2500-28 UNF-3A X .3750-24 UNF-3A | | |

TABLE 1 – PART NUMBERS AND DIMENSIONS

| PART NUMBER | A | B | C | L REF | APPROX. MASS LB/100 |
|-------------|-------------|---------------|---------------|-------|---------------------|
| MS9307-001 | .428 - .448 | 1/ | .740 - .760 | 1.406 | 4.16 |
| MS9307-002 | .428 - .448 | 1/ | .802 - .822 | 1.469 | 4.33 |
| MS9307-003 | .428 - .448 | 1/ | .865 - .885 | 1.531 | 4.50 |
| MS9307-004 | .428 - .448 | 1/ | .928 - .948 | 1.594 | 4.67 |
| MS9307-005 | .428 - .448 | 1/ | .990 - 1.010 | 1.656 | 4.84 |
| MS9307-006 | .428 - .448 | 1/ | 1.052 - 1.072 | 1.719 | 5.01 |
| MS9307-007 | .428 - .448 | .065 - .125 | 1.115 - 1.135 | 1.781 | 5.18 |
| MS9307-008 | .428 - .448 | .128 - .188 | 1.178 - 1.198 | 1.844 | 5.35 |
| MS9307-009 | .428 - .448 | .190 - .250 | 1.240 - 1.260 | 1.906 | 5.52 |
| MS9307-010 | .428 - .448 | .252 - .312 | 1.302 - 1.322 | 1.969 | 5.69 |
| MS9307-011 | .428 - .448 | .315 - .375 | 1.365 - 1.385 | 2.031 | 5.86 |
| MS9307-012 | .428 - .448 | .378 - .438 | 1.428 - 1.448 | 2.094 | 6.03 |
| MS9307-013 | .428 - .448 | .440 - .500 | 1.490 - 1.510 | 2.156 | 6.20 |
| MS9307-014 | .428 - .448 | .502 - .562 | 1.552 - 1.572 | 2.219 | 6.37 |
| MS9307-015 | .428 - .448 | .565 - .625 | 1.615 - 1.635 | 2.281 | 6.54 |
| MS9307-016 | .428 - .448 | .628 - .688 | 1.678 - 1.698 | 2.344 | 6.71 |
| MS9307-017 | .428 - .448 | .690 - .750 | 1.740 - 1.760 | 2.406 | 6.88 |
| MS9307-018 | .428 - .448 | .752 - .812 | 1.802 - 1.822 | 2.469 | 7.05 |
| MS9307-019 | .428 - .448 | .815 - .875 | 1.865 - 1.885 | 2.531 | 7.22 |
| MS9307-020 | .428 - .448 | .878 - .938 | 1.928 - 1.948 | 2.594 | 7.39 |
| MS9307-021 | .428 - .448 | .940 - 1.000 | 1.990 - 2.010 | 2.656 | 7.56 |
| MS9307-022 | .428 - .448 | 1.002 - 1.062 | 2.052 - 2.072 | 2.719 | 7.73 |
| MS9307-023 | .428 - .448 | 1.065 - 1.125 | 2.115 - 2.135 | 2.781 | 7.90 |
| MS9307-024 | .428 - .448 | 1.190 - 1.250 | 2.240 - 2.260 | 2.906 | 8.24 |
| MS9307-025 | .428 - .448 | 1.315 - 1.375 | 2.365 - 2.385 | 3.031 | 8.58 |
| MS9307-026 | .428 - .448 | 1.440 - 1.500 | 2.490 - 2.510 | 3.156 | 8.92 |
| MS9307-027 | .428 - .448 | 1.565 - 1.625 | 2.615 - 2.635 | 3.281 | 9.26 |
| MS9307-028 | .428 - .448 | 1.690 - 1.750 | 2.740 - 2.760 | 3.406 | 9.60 |
| MS9307-029 | .428 - .448 | 1.815 - 1.875 | 2.865 - 2.885 | 3.531 | 9.94 |
| MS9307-030 | .428 - .448 | 1.940 - 2.000 | 2.990 - 3.010 | 3.656 | 10.28 |


AEROSPACE STANDARD

 STUD, SHOULDERED, STEPPED, HEX, WRENCHING,
 STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN,
 .2500-28 UNF-3A X .3750-24 UNF-3A

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 SHEET 3 OF 7

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TABLE 1 – PART NUMBERS AND DIMENSIONS - CONTINUED

| PART NUMBER | A | B | C | L REF | APPROX. MASS LB/100 |
|-------------|-------------|---------------|---------------|-------|---------------------|
| MS9307-050 | .490 - .510 | $\frac{1}{1}$ | .740 - .760 | 1.469 | 4.33 |
| MS9307-051 | .490 - .510 | $\frac{1}{1}$ | .802 - .822 | 1.531 | 4.50 |
| MS9307-052 | .490 - .510 | $\frac{1}{1}$ | .865 - .885 | 1.594 | 4.67 |
| MS9307-053 | .490 - .510 | $\frac{1}{1}$ | .928 - .948 | 1.656 | 4.84 |
| MS9307-054 | .490 - .510 | $\frac{1}{1}$ | .990 - 1.010 | 1.719 | 5.01 |
| MS9307-055 | .490 - .510 | $\frac{1}{1}$ | 1.052 - 1.072 | 1.781 | 5.18 |
| MS9307-056 | .490 - .510 | .065 - .125 | 1.115 - 1.135 | 1.844 | 5.35 |
| MS9307-057 | .490 - .510 | .128 - .188 | 1.178 - 1.198 | 1.906 | 5.52 |
| MS9307-058 | .490 - .510 | .190 - .250 | 1.240 - 1.260 | 1.969 | 5.69 |
| MS9307-059 | .490 - .510 | .252 - .312 | 1.302 - 1.322 | 2.031 | 5.86 |
| MS9307-060 | .490 - .510 | .315 - .375 | 1.365 - 1.385 | 2.094 | 6.03 |
| MS9307-061 | .490 - .510 | .378 - .438 | 1.428 - 1.448 | 2.156 | 6.20 |
| MS9307-062 | .490 - .510 | .440 - .500 | 1.490 - 1.510 | 2.219 | 6.37 |
| MS9307-063 | .490 - .510 | .502 - .562 | 1.552 - 1.572 | 2.281 | 6.54 |
| MS9307-064 | .490 - .510 | .565 - .625 | 1.615 - 1.635 | 2.344 | 6.71 |
| MS9307-065 | .490 - .510 | .628 - .688 | 1.678 - 1.698 | 2.406 | 6.88 |
| MS9307-066 | .490 - .510 | .690 - .750 | 1.740 - 1.760 | 2.469 | 7.05 |
| MS9307-067 | .490 - .510 | .752 - .812 | 1.802 - 1.822 | 2.531 | 7.22 |
| MS9307-068 | .490 - .510 | .815 - .875 | 1.865 - 1.885 | 2.594 | 7.39 |
| MS9307-069 | .490 - .510 | .878 - .938 | 1.928 - 1.948 | 2.656 | 7.56 |
| MS9307-070 | .490 - .510 | .940 - 1.000 | 1.990 - 2.010 | 2.719 | 7.73 |
| MS9307-071 | .490 - .510 | 1.002 - 1.062 | 2.052 - 2.072 | 2.781 | 7.90 |
| MS9307-072 | .490 - .510 | 1.065 - 1.125 | 2.115 - 2.135 | 2.844 | 8.07 |
| MS9307-073 | .490 - .510 | 1.190 - 1.250 | 2.240 - 2.260 | 2.969 | 8.41 |
| MS9307-074 | .490 - .510 | 1.315 - 1.375 | 2.365 - 2.385 | 3.094 | 8.75 |
| MS9307-075 | .490 - .510 | 1.440 - 1.500 | 2.490 - 2.510 | 3.219 | 9.09 |
| MS9307-076 | .490 - .510 | 1.565 - 1.625 | 2.615 - 2.635 | 3.344 | 9.43 |
| MS9307-077 | .490 - .510 | 1.690 - 1.750 | 2.740 - 2.760 | 3.469 | 9.77 |
| MS9307-078 | .490 - .510 | 1.815 - 1.875 | 2.865 - 2.885 | 3.594 | 10.11 |
| MS9307-079 | .490 - .510 | 1.940 - 2.000 | 2.990 - 3.010 | 3.719 | 10.45 |

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TABLE 1 – PART NUMBERS AND DIMENSIONS - CONTINUED

| PART NUMBER | A | B | C | L REF | APPROX. MASS LB/100 |
|-------------|-------------|---------------|---------------|-------|---------------------|
| MS9307-100 | .552 - .572 | <u>1</u> / | .740 - .760 | 1.531 | 4.50 |
| MS9307-101 | .552 - .572 | <u>1</u> / | .802 - .822 | 1.594 | 4.67 |
| MS9307-102 | .552 - .572 | <u>1</u> / | .865 - .885 | 1.656 | 4.84 |
| MS9307-103 | .552 - .572 | <u>1</u> / | .928 - .948 | 1.719 | 5.01 |
| MS9307-104 | .552 - .572 | <u>1</u> / | .990 - 1.010 | 1.781 | 5.18 |
| MS9307-105 | .552 - .572 | <u>1</u> / | 1.052 - 1.072 | 1.844 | 5.35 |
| MS9307-106 | .552 - .572 | .065 - .125 | 1.115 - 1.135 | 1.906 | 5.52 |
| MS9307-107 | .552 - .572 | .128 - .188 | 1.178 - 1.198 | 1.969 | 5.69 |
| MS9307-108 | .552 - .572 | .190 - .250 | 1.240 - 1.260 | 2.031 | 5.86 |
| MS9307-109 | .552 - .572 | .252 - .312 | 1.302 - 1.322 | 2.094 | 6.03 |
| MS9307-110 | .552 - .572 | .315 - .375 | 1.365 - 1.385 | 2.156 | 6.20 |
| MS9307-111 | .552 - .572 | .378 - .438 | 1.428 - 1.448 | 2.219 | 6.37 |
| MS9307-112 | .552 - .572 | .440 - .500 | 1.490 - 1.510 | 2.281 | 6.54 |
| MS9307-113 | .552 - .572 | .502 - .562 | 1.552 - 1.572 | 2.344 | 6.71 |
| MS9307-114 | .552 - .572 | .565 - .625 | 1.615 - 1.635 | 2.406 | 6.88 |
| MS9307-115 | .552 - .572 | .628 - .688 | 1.678 - 1.698 | 2.469 | 7.05 |
| MS9307-116 | .552 - .572 | .690 - .750 | 1.740 - 1.760 | 2.531 | 7.22 |
| MS9307-117 | .552 - .572 | .752 - .812 | 1.802 - 1.822 | 2.593 | 7.39 |
| MS9307-118 | .552 - .572 | .815 - .875 | 1.865 - 1.885 | 2.656 | 7.56 |
| MS9307-119 | .552 - .572 | .878 - .938 | 1.928 - 1.948 | 2.719 | 7.73 |
| MS9307-120 | .552 - .572 | .940 - 1.000 | 1.990 - 2.010 | 2.781 | 7.90 |
| MS9307-121 | .552 - .572 | 1.002 - 1.062 | 2.052 - 2.072 | 2.844 | 8.07 |
| MS9307-122 | .552 - .572 | 1.065 - 1.125 | 2.115 - 2.135 | 2.906 | 8.24 |
| MS9307-123 | .552 - .572 | 1.190 - 1.250 | 2.240 - 2.260 | 3.031 | 8.58 |
| MS9307-124 | .552 - .572 | 1.315 - 1.375 | 2.365 - 2.385 | 3.156 | 8.92 |
| MS9307-125 | .552 - .572 | 1.440 - 1.500 | 2.490 - 2.510 | 3.281 | 9.26 |
| MS9307-126 | .552 - .572 | 1.565 - 1.625 | 2.615 - 2.635 | 3.406 | 9.60 |
| MS9307-127 | .552 - .572 | 1.690 - 1.750 | 2.740 - 2.760 | 3.531 | 9.94 |
| MS9307-128 | .552 - .572 | 1.815 - 1.875 | 2.865 - 2.885 | 3.656 | 10.28 |
| MS9307-129 | .552 - .572 | 1.940 - 2.000 | 2.990 - 3.010 | 3.781 | 10.62 |

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