

**REV.
B**

SAE AS9304

FEDERAL SUPPLY CLASS
5307

RATIONALE

UPDATE CAMIUM NOTICE AND CORRECT TYPO FOR THE MPI REQUIREMENT IN NOTE 6.

NOTICE

THE INITIAL SAE PUBLICATION OF THIS DOCUMENT WAS TAKEN DIRECTLY FROM U.S. MILITARY STANDARD MS9304B, NOTICE 1. THIS SAE STANDARD RETAINS THE SAME PART NUMBERS ESTABLISHED BY THE ORIGINAL MILITARY DOCUMENT.

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

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THIRD ANGLE PROJECTION



CUSTODIAN: SAE E-25

PROCUREMENT SPECIFICATION: AS7452

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

STUD, SHOULDERED, STEPPED, HEX., WRENCHING,
STEEL UNS G87400, CADMIUM PLATED, 125 KSI MIN,
.1900-32 UNF-3A X .2500-28 UNF-3A

SAE AS9304
SHEET 1 OF 5

**REV.
B**

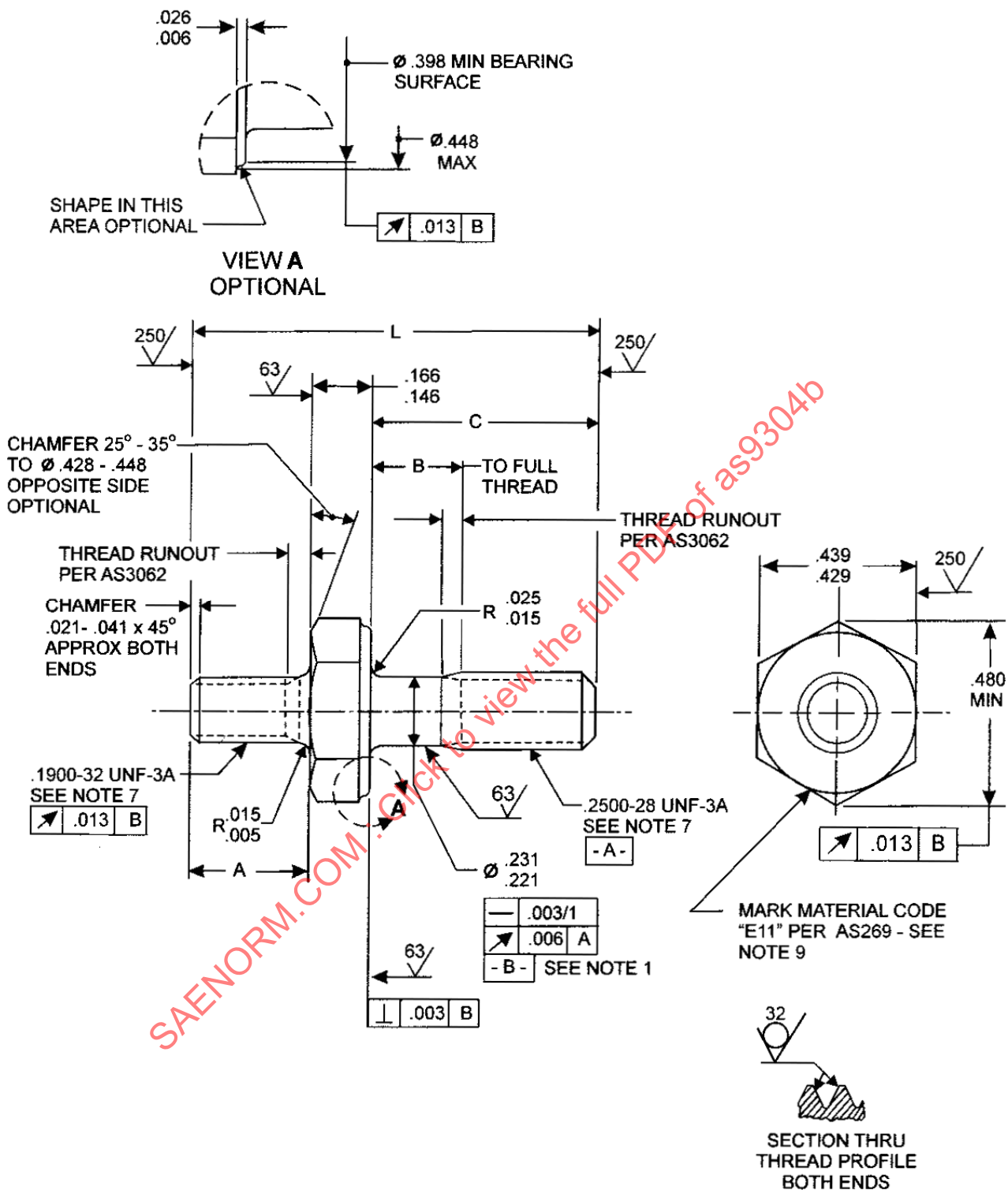


FIGURE 1 - STUD

TABLE 1 – PART NUMBERS AND DIMENSIONS

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9304-001	.365 - .385	1/	.490 - .510	1.031	1.52
MS9304-002	.365 - .385	1/	.552 - .572	1.094	1.59
MS9304-003	.365 - .385	1/	.615 - .625	1.156	1.66
MS9304-004	.365 - .385	1/	.678 - .698	1.219	1.73
MS9304-005	.365 - .385	1/	.740 - .760	1.281	1.80
MS9304-006	.365 - .385	1/	.802 - .822	1.344	1.87
MS9304-007	.365 - .385	.065 - .125	.865 - .885	1.406	1.94
MS9304-008	.365 - .385	.128 - .188	.928 - .948	1.469	2.01
MS9304-009	.365 - .385	.190 - .250	.990 - 1.010	1.531	2.08
MS9304-010	.365 - .385	.252 - .312	1.052 - 1.072	1.594	2.15
MS9304-011	.365 - .385	.315 - .375	1.115 - 1.135	1.656	2.22
MS9304-012	.365 - .385	.378 - .438	1.178 - 1.198	1.719	2.29
MS9304-013	.365 - .385	.440 - .500	1.240 - 1.260	1.781	2.36
MS9304-014	.365 - .385	.502 - .562	1.302 - 1.322	1.844	2.43
MS9304-015	.365 - .385	.565 - .625	1.365 - 1.385	1.906	2.50
MS9304-016	.365 - .385	.628 - .688	1.428 - 1.448	1.969	2.57
MS9304-017	.365 - .385	.690 - .750	1.490 - 1.510	2.031	2.64
MS9304-018	.365 - .385	.752 - .812	1.552 - 1.572	2.094	2.71
MS9304-019	.365 - .385	.815 - .875	1.615 - 1.635	2.156	2.78
MS9304-020	.365 - .385	.878 - .938	1.678 - 1.698	2.219	2.85
MS9304-021	.365 - .385	.940 - 1.000	1.740 - 1.760	2.281	2.92
MS9304-022	.365 - .385	1.002 - 1.062	1.802 - 1.822	2.344	2.99
MS9304-023	.365 - .385	1.065 - 1.125	1.865 - 1.885	2.406	3.06
MS9304-024	.365 - .385	1.128 - 1.188	1.928 - 1.948	2.469	3.13
MS9304-025	.365 - .385	1.190 - 1.250	1.990 - 2.010	2.531	3.20

TABLE 1 – PART NUMBERS AND DIMENSIONS – CONTINUED

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9304-050	.428 - .448	1/	.490 - .510	1.094	1.59
MS9304-051	.428 - .448	1/	.552 - .572	1.156	1.66
MS9304-052	.428 - .448	1/	.615 - .625	1.219	1.73
MS9304-053	.428 - .448	1/	.678 - .698	1.281	1.80
MS9304-054	.428 - .448	1/	.740 - .760	1.344	1.87
MS9304-055	.428 - .448	1/	.802 - .822	1.406	1.94
MS9304-056	.428 - .448	.065 - .125	.865 - .885	1.469	2.01
MS9304-057	.428 - .448	.128 - .188	.928 - .948	1.531	2.08
MS9304-058	.428 - .448	.190 - .250	.990 - 1.010	1.594	2.15
MS9304-059	.428 - .448	.252 - .312	1.052 - 1.072	1.656	2.22
MS9304-060	.428 - .448	.315 - .375	1.115 - 1.135	1.719	2.29
MS9304-061	.428 - .448	.378 - .438	1.178 - 1.198	1.781	2.36
MS9304-062	.428 - .448	.440 - .500	1.240 - 1.260	1.844	2.43
MS9304-063	.428 - .448	.502 - .562	1.302 - 1.322	1.906	2.50
MS9304-064	.428 - .448	.565 - .625	1.365 - 1.385	1.969	2.57
MS9304-065	.428 - .448	.628 - .688	1.428 - 1.448	2.031	2.64
MS9304-066	.428 - .448	.690 - .750	1.490 - 1.510	2.094	2.71
MS9304-067	.428 - .448	.752 - .812	1.552 - 1.572	2.156	2.78
MS9304-068	.428 - .448	.815 - .875	1.615 - 1.635	2.219	2.85
MS9304-069	.428 - .448	.878 - .938	1.678 - 1.698	2.281	2.92
MS9304-070	.428 - .448	.940 - 1.000	1.740 - 1.760	2.344	2.99
MS9304-071	.428 - .448	1.002 - 1.062	1.802 - 1.822	2.406	3.06
MS9304-072	.428 - .448	1.065 - 1.125	1.865 - 1.885	2.469	3.13
MS9304-073	.428 - .448	1.128 - 1.188	1.928 - 1.948	2.531	3.20
MS9304-074	.428 - .448	1.190 - 1.250	1.990 - 2.010	2.594	3.27

TABLE 1 – PART NUMBERS AND DIMENSIONS - CONTINUED

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9304-100	.490 - .510	1/	.490 - .510	1.156	1.66
MS9304-101	.490 - .510	1/	.552 - .572	1.219	1.73
MS9304-102	.490 - .510	1/	.615 - .625	1.281	1.80
MS9304-103	.490 - .510	1/	.678 - .698	1.344	1.87
MS9304-104	.490 - .510	1/	.740 - .760	1.406	1.94
MS9304-105	.490 - .510	1/	.802 - .822	1.469	2.01
MS9304-106	.490 - .510	.065 - .125	.865 - .885	1.531	2.08
MS9304-107	.490 - .510	.128 - .188	.928 - .948	1.594	2.15
MS9304-108	.490 - .510	.190 - .250	.990 - 1.010	1.656	2.22
MS9304-109	.490 - .510	.252 - .312	1.052 - 1.072	1.719	2.29
MS9304-110	.490 - .510	.315 - .375	1.115 - 1.135	1.781	2.36
MS9304-111	.490 - .510	.378 - .438	1.178 - 1.198	1.844	2.43
MS9304-112	.490 - .510	.440 - .500	1.240 - 1.260	1.906	2.50
MS9304-113	.490 - .510	.502 - .562	1.302 - 1.322	1.969	2.57
MS9304-114	.490 - .510	.565 - .625	1.365 - 1.385	2.031	2.64
MS9304-115	.490 - .510	.628 - .688	1.428 - 1.448	2.094	2.71
MS9304-116	.490 - .510	.690 - .750	1.490 - 1.510	2.156	2.78
MS9304-117	.490 - .510	.752 - .812	1.552 - 1.572	2.219	2.85
MS9304-118	.490 - .510	.815 - .875	1.615 - 1.635	2.281	2.92
MS9304-119	.490 - .510	.878 - .938	1.678 - 1.698	2.344	2.99
MS9304-120	.490 - .510	.0940 - 1.000	1.740 - 1.760	2.406	3.06
MS9304-121	.490 - .510	1.002 - 1.062	1.802 - 1.822	2.469	3.13
MS9304-122	.490 - .510	1.065 - 1.125	1.865 - 1.885	2.531	3.20
MS9304-123	.490 - .510	1.128 - 1.188	1.928 - 1.948	2.594	3.27
MS9304-124	.490 - .510	1.190 - 1.250	1.990 - 2.010	2.656	3.34

TABLE 1 – PART NUMBERS AND DIMENSIONS – CONTINUED

PART NUMBER	A	B	C	L REF	APPROX. MASS LB/100
MS9304-150	.552 - .572	1/	.490 - .510	1.219	1.73
MS9304-151	.552 - .572	1/	.552 - .572	1.281	1.80
MS9304-152	.552 - .572	1/	.615 - .625	1.344	1.87
MS9304-153	.552 - .572	1/	.678 - .698	1.406	1.94
MS9304-154	.552 - .572	1/	.740 - .760	1.469	2.01
MS9304-155	.552 - .572	1/	.802 - .822	1.531	2.08
MS9304-156	.552 - .572	.065 - .125	.865 - .885	1.594	2.15
MS9304-157	.552 - .572	.128 - .188	.928 - .948	1.656	2.22
MS9304-158	.552 - .572	.190 - .250	.990 - 1.010	1.719	2.29
MS9304-159	.552 - .572	.252 - .312	1.052 - 1.072	1.781	2.36
MS9304-160	.552 - .572	.315 - .375	1.115 - 1.135	1.844	2.43
MS9304-161	.552 - .572	.378 - .438	1.178 - 1.198	1.906	2.50
MS9304-162	.552 - .572	.440 - .500	1.240 - 1.260	1.969	2.57
MS9304-163	.552 - .572	.502 - .562	1.302 - 1.322	2.031	2.64
MS9304-164	.552 - .572	.565 - .625	1.365 - 1.385	2.094	2.71
MS9304-165	.552 - .572	.628 - .688	1.428 - 1.448	2.156	2.78
MS9304-166	.552 - .572	.690 - .750	1.490 - 1.510	2.219	2.85
MS9304-167	.552 - .572	.752 - .812	1.552 - 1.572	2.281	2.92
MS9304-168	.552 - .572	.815 - .875	1.615 - 1.635	2.344	2.99
MS9304-169	.552 - .572	.878 - .938	1.678 - 1.698	2.406	3.06
MS9304-170	.552 - .572	.0940 - 1.000	1.740 - 1.760	2.469	3.13
MS9304-171	.552 - .572	1.002 - 1.062	1.802 - 1.822	2.531	3.20
MS9304-172	.552 - .572	1.065 - 1.125	1.865 - 1.885	2.594	3.27
MS9304-173	.552 - .572	1.128 - 1.188	1.928 - 1.948	2.656	3.34
MS9304-174	.552 - .572	1.190 - 1.250	1.990 - 2.010	2.719	3.41

1/ THREAD TO HEAD. MAXIMUM TWO INCOMPLETE THREADS.