

Form Approved
 OMB No. 0704-0188

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODDSS SPECIFIED IN THE SOLICITATION: MIL-N-25027

THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

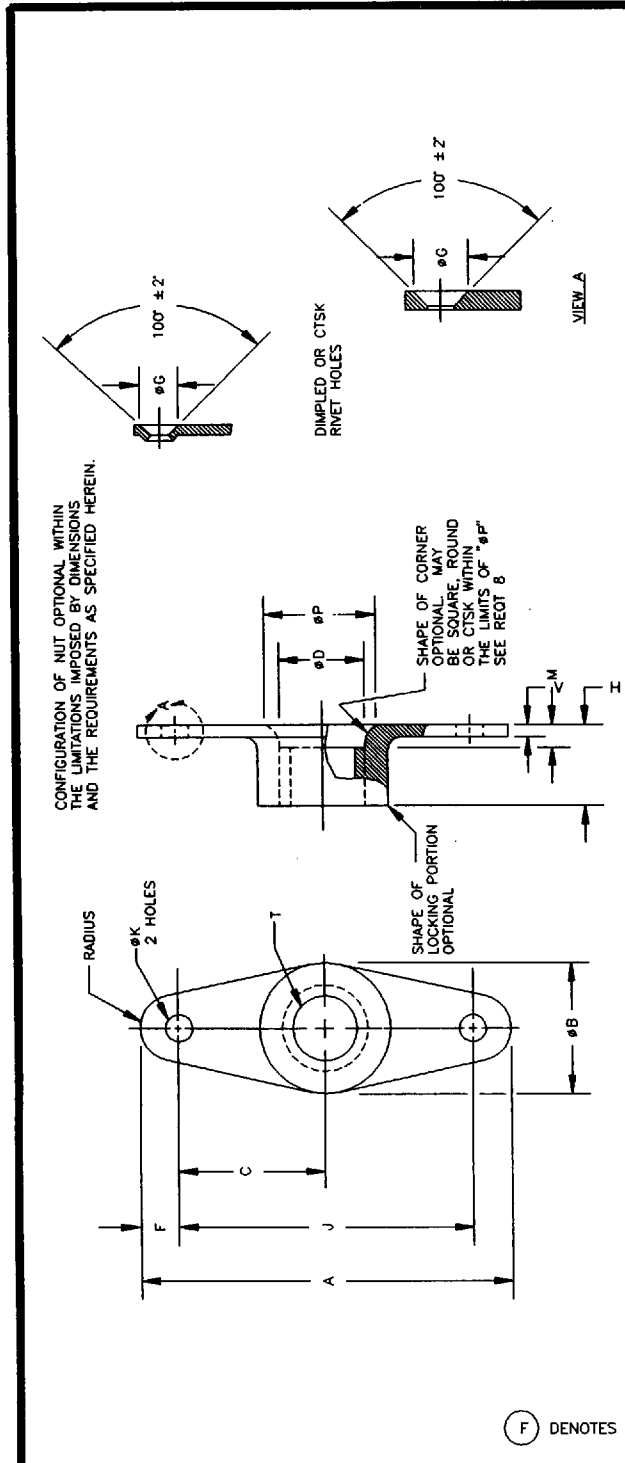


TABLE 1. DASH NUMBERS AND DIMENSIONS

DASH NUMBERS	PLAIN RIVET HOLES		COUNTERSUNK OR DIMPLED RIVET HOLES		A MAX	B MAX	C MIN	D MIN	E MIN	F MIN	G MIN	H MAX	J MAX	K MAX	M MIN	P MAX	V MAX	Y MAX	Z MAX	ACTUAL WEIGHT LBS/MIN LBS/100
	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT																
-04	L04	L04K	-04K	L04K	948	260	195	344	100	200	143	.688	.098	-.000	-.166	.047	.750	.14		
-06	L06	L06K	-06K	L06K	948	265	239	344	100	200	171	.688	.098	-.000	-.206	.047	1.130	.18		
-08	L08	L08K	-08K	L08K	948	297	277	344	100	200	250	.688	.098	-.000	-.062	.248	.047	1.720	.26	
-3	L3	L3K	-3K	L3K	948	328	308	344	100	200	250	.688	.098	-.000	-.062	.274	.047	2.460	.29	
-4	L4	L4K	-4K	L4K	1,260	414	375	500	254	100	200	281	1,000	.098	.062	.344	.055	4,580	.53	
-5	L5	L5K	-5K	L5K	1,260	505	465	500	317	125	230	328	1,000	.130	.062	.417	.065	7,380	.80	
-6	L6	L6K	-6K	L6K	1,260	584	544	500	379	125	230	344	1,000	.130	.062	.503	.075	11,450	1.31	
-7	L7	L7K	-7K	L7K	1,477	726	685	562	442	156	250	390	1,125	.161	.062	.602	.085	15,450	1.84	
-8	L8	L8K	-8K	L8K	1,602	858	796	623	521	156	250	609	1,250	.161	.062	.640	.115	21,110	4.80	
-9	L9	L9K	-9K	L9K	1,727	953	902	688	584	156	230	656	1,375	.161	.062	.703	.115	26,810	7.70	
-10	L10	L10K	-10K	L10K	1,852	1,016	964	750	646	156	230	765	1,500	.161	.062	.756	.115	34,130	8.60	

1/ MINIMUM "H" NOT SPECIFIED. LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION.
 2/ CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES 6% MORE THAN .005.
 3/ DIMPLED RIVET HOLE TOLERANCE FOR "K" IS +.015 -.000.

(F) DENOTES CHANGE(S)

INCH-POUND

PREPARING ACTIVITY: DLA-IS CUSTODIANS: ARMY- AV NAVY- AS AIR FORCE- 11 DLA- REVIEW: 82 USER: CR, MI PROJECT NUMBER: 5310-1944 DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, TWO-LUG, LOW HEIGHT, STEEL, 125 KSI Flu, 450°F	SPECIFICATION SHEET NUMBER MS21047 1 FEB 94 REV F SUPERSEDING MS21047 E 30 SEPT 87 (SEE NOTE 5) AMSC- N/A FSC 5310
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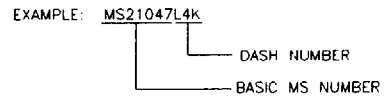
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REQUIREMENTS:

1. **MATERIAL:** CARBON STEEL, COMPOSITIONS 1035 (UNS G10350), 1040 (UNS G10400), 1050 (UNS G10500), IN ACCORDANCE WITH ASTM A827 OR QQ-S-700. COMPOSITION 1042 (UNS G10420), IN ACCORDANCE WITH ASTM A29. ALLOY STEEL, GRADES 4130 (UNS G41300), 4340 (UNS G43400) AND B740 (UNS G87400), IN ACCORDANCE WITH ASTM A29.
2. **FINISH:** CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416 TYPE II, CLASS 2. FOR DRY FILM LUBRICATED NUTS, THE TYPE AND CLASS ARE OPTIONAL IF THE NUTS MEET THE SALT SPRAY REQUIREMENTS OF QQ-P-416 TYPE II.
3. **DIMENSIONING AND TOLERANCING:** DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M.
4. **HARDNESS:** 49 HRC, MAX.
5. **THREADS:** THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879.
6. **SURFACE TEXTURE:** SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL NOT EXCEED 125 MICROINCHES, IN ACCORDANCE WITH ANSI/ASME B46.1.
7. **LUBRICANT:** DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027. NON-DRY FILM LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802.
8. **EDGES:** Break all sharp edges and remove all burrs.
9. **COUNTERBORE/COUNTERSINK:** ON SIZE .164 AND LARGER, COUNTERBORE THREAD "D" DIAMETER X .062 DEEP MINIMUM THREAD RELIEF. ON SIZE .138 AND SMALLER, COUNTERSINK TO "P" DIAMETER WITHIN THE LIMITS OF D, P AND M.
10. **PART NUMBER:** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.



MS21047L4K INDICATES: NUT, SELF-LOCKING, PLATE, TWO LUG, LOW HEIGHT, STEEL; 125 KSI Ft_u, 450°F; .250-28UNJF-3B; DRY FILM LUBRICANT COUNTERSUNK OR DIMPLED HOLES.

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
3. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.
4. DESIGN AND USAGE LIMITATIONS: THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON THE CROSS SECTION AREA AT THE BASIC ROOT DIAMETER OF THE THREADS. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS33588. ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED.
5. MS21047 SUPERSEDES AN362, AN366, NAS680, NAS1023 IN PART.

PREPARING ACTIVITY: DLA-IS CUSTODIANS: ARMY- AV NAVY- AS AIR FORCE- 11 DLA- REVIEW: 82 USER: CR, MI PROJECT NUMBER: 5310-1944	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, TWO-LUG, LOW HEIGHT, STEEL, 125 KSI Ft_u, 450°F	SPECIFICATION SHEET NUMBER MS21047 1 FEB 94 REV F SUPERSEDING MS21047 E 30 SEPT 87 (SEE NOTE 5) AMSC- N/A FSC 5310
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INTERCHANGEABILITY RELATIONSHIP

MS21047 NUTS CAN UNIVERSALLY REPLACE AN362, AN366, NAS680 AND NAS1023 NUTS OF LIKE MATERIAL, THREAD SIZE, LUBRICANT (DRY FILM OR NON-DRY FILM LUBRICANT) AND FASTENING METHOD (PLAIN RIVET HOLES; DIMPLED OR COUNTERSUNK RIVET HOLES), BUT THESE AN362, AN366, NAS680, AND NAS1023 NUTS CANNOT UNIVERSALLY REPLACE MS21047 NUTS.

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER	CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER
NAS1023A04	MS21047L04	NAS1023A5	MS21047L5
NAS1023A04k	MS21047L04k	NAS1023A5k	MS21047L5k
NAS1023AX04	MS21047-04	NAS1023AX5	MS21047-5
NAS1023AX04k	MS21047-04k	NAS1023AX5k	MS21047-5k
NAS1023A06	MS21047L06	NAS1023A6	MS21047L6
NAS1023A06k	MS21047L06k	NAS1023A6k	MS21047-6
NAS1023AX06	MS21047-06	NAS1023A7	MS21047L7
NAS1023AX06k	MS21047-06k	NAS1023AX7	MS21047-7
NAS1023A08	MS21047L08	NAS1023A8	MS21047L8
NAS1023A08k	MS21047L08k	NAS1023AX8	MS21047-8
NAS1023AX08	MS21047-08	NAS1023A9	MS21047L9
NAS1023AX08k	MS21047-08k	NAS1023AX9	MS21047-9
NAS1023A3	MS21047L3	NAS1023A10	MS21047L10
NAS1023A3k	MS21047L3k	NAS1023AX10	MS21047-10
NAS1023AX3	MS21047-3	---	---
NAS1023AX3k	MS21047-3k	---	---
NAS1023A4	MS21047L4	---	---
NAS1023A4k	MS21047L4k	---	---
NAS1023AX4	MS21047-4	---	---
NAS1023AX4k	MS21047-4k	---	---

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS			SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS			SUBSTITUTIVE PART NUMBERS
---	---	NAS680X04k	MS21047-04	---	AN366F1032B	---	MS21047L3
---	---	NAS680A04	MS21047-04k	---	---	NAS680A3k	MS21047L3k
---	---	NAS680A04k	MS21047L04	AN362F428	AN366F428	---	MS21047-4
---	---	---	MS21047L04k	---	AN366F428B	---	MS21047-4k
AN362F632	AN366F632	---	MS21047-06	---	---	NAS680X4k	MS21047L4
---	AN366F632B	---	MS21047-06k	AN362F428	AN366F428	NAS680A4	MS21047L4k
---	---	NAS680X06k	MS21047-06k	---	AN366F428B	---	MS21047L4k
AN362F632	AN366F632	---	MS21047L06	---	---	NAS680A4k	MS21047-5
---	AN366F632B	---	MS21047L06k	AN362F524	AN366F524	---	MS21047-5k
---	---	NAS680A06k	MS21047L06k	---	AN366F524B	---	MS21047-5k
AN362F832	AN366F832	---	MS21047-08	---	---	NAS680X5k	MS21047L5
---	AN366F832B	---	MS21047-08k	AN362F524	AN366F524	NAS680A5	MS21047L5k
---	---	NAS680X08k	MS21047-08k	---	AN366F524B	---	MS21047L5k
AN362F832	AN366F832	---	MS21047L08	---	---	NAS680A5k	MS21047-6
---	AN366F832B	---	MS21047L08k	AN362F624	AN366F624	---	MS21047-6k
---	---	NAS680A08k	MS21047L08k	---	AN366F624B	---	MS21047-6
AN362F1032	AN366F1032	---	MS21047-3	AN362F624	AN366F624	NAS680A6	MS21047L6
---	AN366F1032B	---	MS21047-3k	---	AN366F624B	---	MS21047L6k
---	---	NAS680X3k	MS21047-3k	---	---	NAS680A7	MS21047L7
AN362F1032	AN366F1032	NAS680A3	MS21047L3				

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REVIEW: 82 USER: CR, MI PROJECT NUMBER: 5310-1944	SUPERSEDING MS21047 E 30 SEPT 87 (SEE NOTE 5)	
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