

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

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THE "ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION"

CONFIGURATION OF NUT OPTIONAL WITHIN THE LIMITATIONS IMPOSED BY DIMENSIONS AND REQUIREMENTS SPECIFIED HEREIN

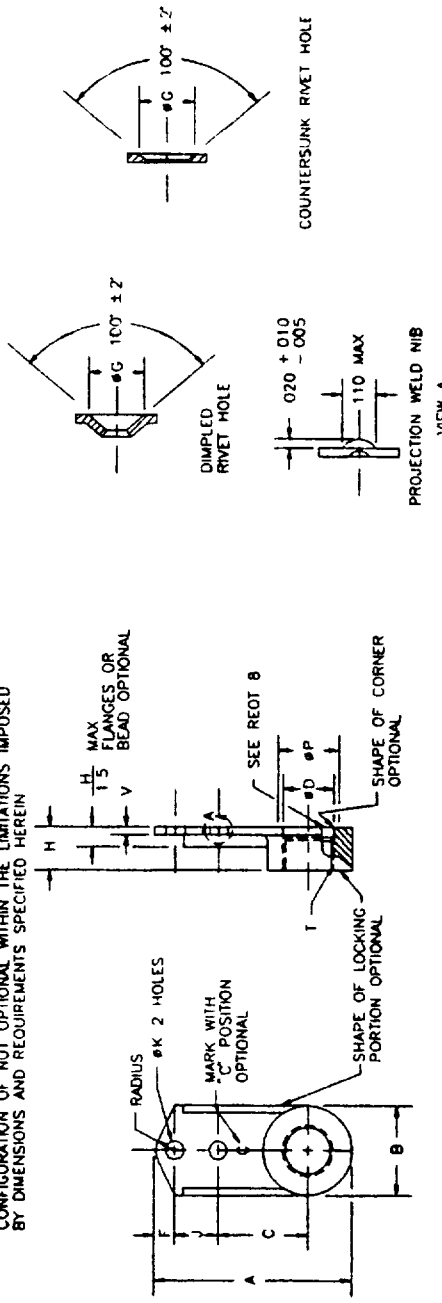


TABLE I DASH NUMBERS AND DIMENSIONS

DASH NUMBERS	450F		BOOF		T THREAD SIZES	A MAX	B MIN	C ± 005	F MIN	F ± 010	H MAX	J ± 002	J ± 005	K MAX	V MAX	AXIAL STRENGTH LBS./INCH	WEIGHT LBS./100
	CTSK OR DIMPLED HOLES	WELDING PROTECTION	FLANK HOLES	WELDING PROTECTION													
L02	-	L02W	-02	-	086-56 UNJC-38	507	164	125	071	5/	110	219	066	130	035	440	06
L03	-	L03W	-03	-	089-48 UNJC-38	535	184	133	071	5/	125	219	066	143	035	590	09
L04	L04K	L04W	-04	-04K	112-40 UNJC-38	667	260	140	089	200	143	219	098	166	040	750	12
L06	L06K	L06W	-06	-06K	138-32 UNJC-38	684	265	195	089	200	171	219	098	206	047	1130	15
L08	L08K	L08W	-08	-08K	164-32 UNJC-38	718	297	235	168	100	200	250	219	098	047	1720	23
L3	L3K	L3W	3	3K	190-32 UNJC-38	745	328	298	194	100	200	250	219	098	047	2480	27
L4	L4K	L4W	4	4K	250-28 UNJF-38	822	414	380	254	100	200	281	219	098	035	4580	46
L5	L5K	L5W	5	5K	3 215-24 UNJF-38	1026	505	475	317	125	230	328	269	130	065	7390	85
L6	L6K	-	6	-	375-24 UNJF-38	1139	614	580	414	125	230	344	269	130	075	11450	204

MINIMUM "K" NOT SPECIFIED, LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION  
 CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES  
 DIMPLED RIVET HOLE TOLERANCE FOR "K" IS + 015 - 000  
 SPACE WILL NOT PERMIT COUNTERSINK

Form Approved  
 OMB No 0704-0188

(G) 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 5310-1981	MILITARY SPECIFICATION SHEET TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, CRES, 125KSI FTU, 450F AND BOOF	SPECIFICATION SHEET NUMBER 1 FEB 84 MS21072 REV 6 SUPERSEDING MS21072F 30 SEP87 (SEE NOTE 5.) AMSC- N/A FSC 5310
DISTRIBUTION STATEMENT A. Approved for public release distribution is unlimited		Page 1 of 2

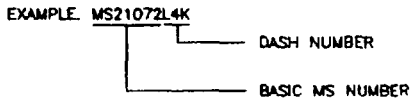
THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION

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

Form Approved  
OMB No 0704-0188

**REQUIREMENTS**

- 1 MATERIAL CORROSION RESISTANT STEEL TYPE A286 (UNS S66286) IN ACCORDANCE WITH AMS5525 AMS5732 OR AMS5737
- 2 FINISH ONLY 800F NUTS SILVER PLATE ALL THREADED SURFACES OF NUT ELEMENT IN ACCORDANCE WITH AMS 2410 THREADS SHALL SHOW COMPLETE COVERAGE SILVER PLATING ON ALL OTHER SURFACES OPTIONAL TARNISHING OR DISCOLORATION OF SILVER NOT CAUSE FOR REJECTION
- 3 DIMENSIONING AND TOLERANCING DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M
- 4 HARDNESS 49HRC, MAX
- 5 THREADS THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
- 6 SURFACE TEXTURE SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICRONS IN ACCORDANCE WITH ANSI/ASME B46.1
- 7 LUBRICANT ONLY 450F NUTS DRY FILM LUBRICANT IN ACCORDANCE WITH MIL-N-25027
- 8 COUNTERBORE/COUNTERSINK ON SIZE 1/64 AND LARGER THREAD RELIEF SHALL BE .062 MINIMUM, ON SIZE 0.138 AND SMALLER COUNTERSINK TO "P" DIAMETER
- 9 PERFORMANCE SEE PROCUREMENT SPECIFICATION EXCEPT 450F DRY FILM LUBRICATED NUTS LIMITED TO FIVE REUSE CYCLES
- 10 PART NUMBER THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE 1



MS21072L4K INDICATES NUT SELF-LOCKING, PLATE ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT, CRES 125 KSI FTU 450 DEGREES F, DRY FILM LUBRICATION 250-28 UNF-3B 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 (DODDSS) 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 OPL 25027 SHALL BE USED
- 5 MS21072 SUPERSEDES NAS696

INTERCHANGEABILITY RELATIONSHIP

MS21072 NUTS CAN UNIVERSALLY REPLACE NAS696 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 NAS696 NUTS CANNOT UNIVERSALLY REPLACE MS21072 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS696C02	MS21072-02
NAS696C02M	MS21072L02
NAS696C03	MS21072-03
NAS696C03M	MS21072L03
NAS696C04	MS21072-04
NAS696C04LM	MS21072L04
NAS696C06L	MS21072-06
NAS696C06LM	MS21072L06
NAS696C08	MS21072-08
NAS696C08M	MS21072L08
NAS696C3	MS21072-3
NAS696C3M	MS21072L3
NAS696C4	MS21072-4
NAS696C4M	MS21072L4
NAS696C5	MS21072-5
NAS696C5M	MS21072L5
NAS696C6	MS21072-6
NAS696C6M	MS21072L6

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 11 DLA- REVIEW 82 USER CR, M PROJECT NUMBER 5310-1981 DISTRIBUTION STATEMENT	<u>MILITARY SPECIFICATION SHEET</u> TITLE NUT, SELF-LOCKING PLATE ONE LUG, REDUCED RIVET SPACING, LOW HEIGHT CRES, 125KSI FTU, 450F AND 800F	SPECIFICATION SHEET NUMBER 1 FEB 84 <b>MS21072</b> REV G
		SUPERSEDING MS21072F 30 SEP87 (SEE NOTE 5)
		AMSC- N/A FSC 5310
		A. Approved for public release distribution is unlimited