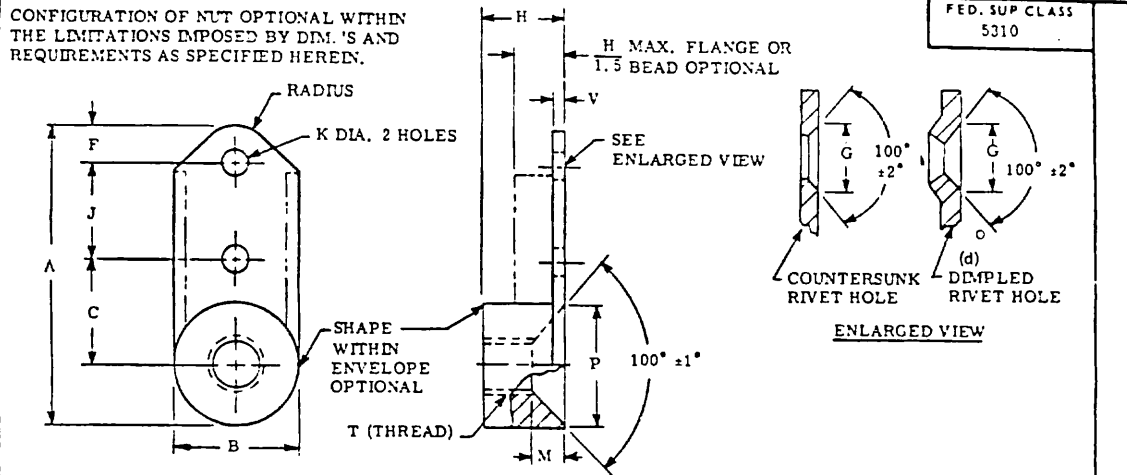


USER SYMBOLS:
ARMY - EL, MI

REVIEWER SYMBOLS:
NAVY - AS
USAF - 11
ARMY - AV
DSA - IS

*Review/year information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current DD015.

This military standard is mandatory for use by all Departments & Agencies of the Department of Defense. Selection for all new engineering and design applications and for replacing use shall be made from this document.



FED. SUP CLASS
5310

T THREAD SIZE	(a)		C 005	F MIN.	G DIA. 010	H ^(b) MAX.	J ^(c) 002	K DIA. + .005/REF - .002	M REF	P DIA. 005	V MAT'L MAX.	AXIAL STRENGTH LBS. MIN.	WEIGHT LBS/100 MAX	
	A MAX.	B MAX. MIN.												
1640-32UNJC-3B	.997	.422	.360	.344	.100	.200	.272	.312	.098	.084	.365	.047	1.720	.43
1900-32UNJF-3B	1.013	.453	.406	.344	.100	.200	.281	.312	.098	.093	.411	.047	2.450	.44
2500-26UNJF-3B	1.250	.619	.535	.500	.100	.200	.340	.312	.098	.121	.540	.055	4.500	.66
3125-24UNJF-3B	1.344	.766	.631	.500	.125	.230	.422	.312	.130	.156	.686	.065	7.390	1.17

- (a) THREADS BEFORE LUBRICATION PER MIL-S-8879.
- (b) MINIMUM "H" NOT SPECIFIED. LIMITED ONLY BY STRENGTH REQUIREMENTS.
- (c) CENTER OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE PLATE NUT AS DETERMINED BY THE RIVET HOLES BY MORE THAN .005.
- (d) DIMPLED HOLE TOLERANCE FOR "K" IS -.015, -.000 AFTER FORMING.

NOTES:

1. MATERIAL: ALLOY STEEL.
2. PLATING: 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. HARDNESS: ROCKWELL C49 MAXIMUM.
4. 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-7502. **FOR USAF APPLICATIONS, NUTS TREATED WITH DRY FILM LUBRICANTS SHALL NOT BE USED IN INTERNAL FUEL SYSTEMS APPLICATIONS.**
5. DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED.
6. SURFACE ROUGHNESS IN ACCORDANCE WITH ASA B46.1-1962 (ANSI). UNLESS OTHERWISE SPECIFIED, THE SURFACE ROUGHNESS SHALL NOT EXCEED 125 MICRO INCHES.
7. 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 A CROSS SECTIONAL AREA AT THE BASIC ROOT DIAMETER OF THE THREAD. 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.

INTERCHANGEABILITY RELATIONSHIP: MS21053 NUTS CAN UNIVERSALLY REPLACE NAS683 NUTS OF LIKE MATERIAL, THREAD SIZE, PLATING LUBRICANTS (DRY FILM, OR NON DRY FILM), RIVET SPACING, AND FASTENING METHOD (PLAIN RIVET HOLES, DIMPLED, COUNTERSUNK RIVET HOLES OR PROJECTION WELDING) BUT NAS683 NUTS CANNOT UNIVERSALLY REPLACE MS21053 NUTS.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

(D) DENOTES CHANGES

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AV	TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, 100° CSK LOW HEIGHT, ALLOY STEEL, 125 KSI F _U , 450° F	MILITARY STANDARD MS21053
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES: NAS683	SHEET 1 OF 2

DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

PROJECT NO. 5310-0972

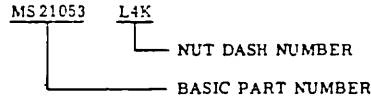
APPROVED 21 JUL 64 REVISED (A) 12 FEB 65 (U) 4 NOV 1966 (C) 20 APR 71 (D) 15 MARCH 1978

USER SYMBOLS:
ARMY - EL, MI

REVIEWER SYMBOLS:
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T THREAD SIZE	DASH NUMBERS			
	450° F NON DRY FILM LUBRICATED		450° F DRY FILM LUBRICATED	
	PLAIN HOLES	CTSK OR DIMPLED HOLES	PLAIN HOLES	CTSK OR DIMPLED HOLES
.1640-32UNJC-3B	-08	-08K	L08	L08K
.1950-32UNJF-3B	-3	-3K	L3	L3K
.2500-28UNJF-3B	-4	-4K	L4	L4K
.3125-24UNJF-3B	-5	-5K	L5	L5K

EXAMPLE OF PART NUMBER:



.2500-28UNJF-3B NUT, SELF LOCKING, ONE LUG, ALLOY STEEL, 125 KSI, 450° F. DRY FILM LUBRICATED, WITH COUNTERSUNK OR DIMPLED RIVET HOLES.

"Review/user information is current as of the date of this document. For future coordination of changes to this document, draft circulation should be based on the information in the current DODISS."

This military standard is mandatory for use by all Departments & Agencies of the Department of Defense. Solicitation for all new engineering and design applications and for replacement use shall be made from this document.

CANCELED PART NUMBERS NAS 683	SUBSTITUTIVE PART NUMBERS
NAS 683 X08	MS21053-08
▲ X08K	▲ -08K
A08	L08
A08K	L08K
X3	-3
X3K	-3K
A3	L3
A3K	L3K
X4	-4
X4K	-4K
A4	L4
A4K	L4K
X5	-5
X5K	-5K
▼ A5	▼ L5
NAS 683 A5K	MS21053 L5K

APPROVED 21 JUL 64 REVISED (D) FOR CHANGES SEE SHEETS 1 AND 2

P.A. NAVY - AS Other Cust USAF - 11 ARMY - AV	TITLE NUT, SELF-LOCKING, PLATE, ONE LUG, 100° CSK, LOW HEIGHT, ALLOY STEEL, 125 KSI F _U , 450° F	MILITARY STANDARD MS21053
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES NAS 683	SHEET 2