

REVIEWER ACTIVITIES
AIR FORCE - 82
DLA-IS

DISTRIBUTION STATEMENT A Approved for public release; distribution is unlimited.

AMSC N/A

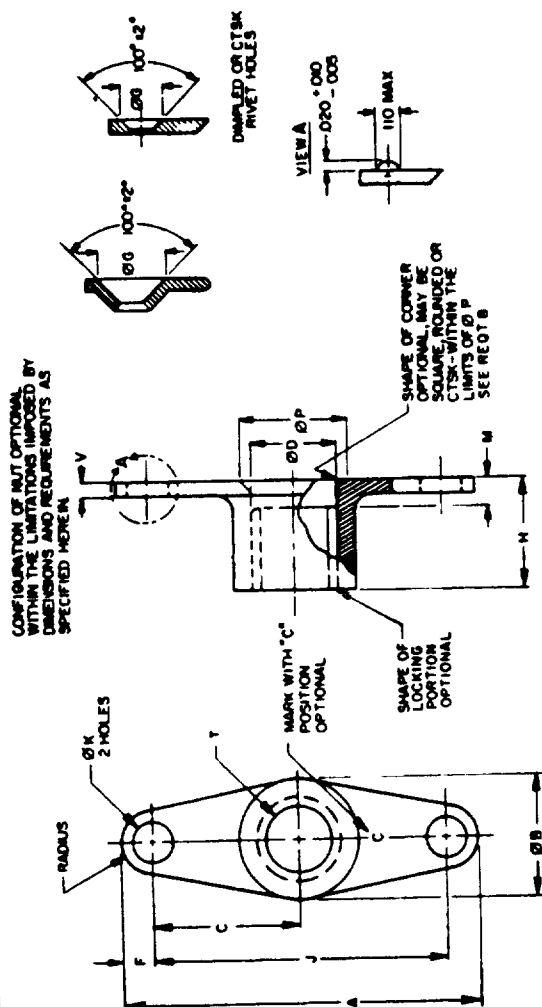


TABLE 1. FACT MARKERS AND DIMENSIONS

TABLE 1 CASE MEMBERS AND DIMENSIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
CASE MEMBERS										CASE DIMENSIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PLATE HOLDS	4557 CASE OR DISPLACED HOLDS	PLAIN HOLDS	WELDING PROJECTION	6007 CASE OR DISPLACED HOLDS	THERMO STRESS	A HOLD	B HOLD	C HOLD	D HOLD	E HOLD	F HOLD	G HOLD	H HOLD	I HOLD	J HOLD	K HOLD	L HOLD	M HOLD	N HOLD	O HOLD	P HOLD	Q HOLD	R HOLD	S HOLD	T HOLD	U HOLD	V HOLD	W HOLD	X HOLD	Y HOLD	Z HOLD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

MINIMUM 1/4" NOT SPECIFIED LIMITED ONLY BY STRAIGHT REQUIREMENTS IF SPECIFICATION
CONTROL OF THE TAPPED HOLE SHALL NOT DEVIATE IN ANY DIRECTION FROM THE CENTER OF THE
PLATE BUT AS DETERMINED BY THE ADJET HOLE IS MORE THAN .005
TOLERANCE WHILE ATTAINMENT FOR .015 .015 .000

APPROVED 12 MIN 24
REVISED 30 SEP 87

IN 64

REVISED (F) 30 SEP 87

(F) ENTIRE STANDARD REVISED

PA
NAVY-AS
Other Cast
ARMY-AV
AIR FORCE-II

**INTERNATIONAL
INTEREST**

**NUT, SELF-LOCKING, PLATE, TWO LUG,
LOW HEIGHT, CRES, 125 KSI Ft_u,
450° AND 800°F**

PROCUREMENT SPECIFICATION
MIL-N-25027

SUPERSEDES
AN362, AN366, NAS680, NAS1023 IN PART

MILITARY STANDARD
MS21048

PAGE OF

5310-1532

DD FORM 672-1 (COORDINATED)

PREVIOUS TO ONE OF THE FORMS ARE DESIGNED TO

5310-1532

REQUIREMENTS

- MATERIAL** CORROSION RESISTANT STEEL, TYPE A286, (UNS S46286, IN ACCORDANCE WITH AMS5525, AMS5732 OR AMS737
- FINISH** ONLY 800°F 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 DRAINING OR DISCOLORATION OF SILVER NOT CAUSE FOR REJECTION
- LUBRICANT** ONLY 450°F NUTS DRY FILM LUBRICANT IN ACCORDANCE WITH MIL-N-25027
- DIMENSIONING AND TOLERANCING** DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14.5M.
- HARDNESS** 49HRC, MAX.
- THREADS** THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
- SURFACE TEXTURE** SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED, SHALL NOT EXCEED 125 MICROINCHES, IN ACCORDANCE WITH ANSI B46.1.
- COUNTERBORE/COUNTERSINK** ON SIZE 164 AND LARGER, COUNTERBORE TREAD "D" DIAMETER X .062 DEEP MINIMUM TREAD RELIEF, ON SIZE 138 AND SMALLER, COUNTERSINK TO "P" DIAMETER WITHIN THE LIMITS OF D, P AND M.
- PERFORMANCE** SEE PROCUREMENT SPECIFICATION, EXCEPT 450°F DRY FILM LUBRICATED NUTS LIMITED TO FIVE REUSE CYCLES.
- PART NUMBER** THE PART NUMBER SHALL CONSIST OF THE BASIC NS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I

EXAMPLE MS21048L4K

```

  MS21048L4K
    |         |
    |         |----- DASH NUMBER
    |         |
    |         |----- BASIC NS NUMBER
  
```

MS21048L4K INDICATES NUT, SELF-LOCKING, PLATE, TWO LUG, LOW HEIGHT, CRES, 125 KSI Ftu, 450°F, DRY FILM LUBRICATION, 250-28 UNUP-3B, COUNTERSINK OR DIMPLED HOLES

NOTES

- ALL DIMENSIONS ARE IN INCHES
- 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
- 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
- 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 CPL 25027 SHALL BE USED

APPROVED 12 JUN 64 REVISED (F) FOR CHANGES SEE PAGES 1, 2 AND 3

NAVY-AS Other Code ARMY-AV AIR FORCE-II	INTERNATIONAL DIFFERENT	TITLE NUT, SELF-LOCKING, PLATE, TWO LUG, LOW HEIGHT, CRES, 125 KSI Ftu, 450° AND 800°F	MILITARY STANDARD
			MS21048
PROCUREMENT SPECIFICATION MIL-N-25027	SUPERSEDES AN362, AN366, NAS680, NAS1023 IN PART	PAGE 2 OF 3	

USER ACTIVITIES
ARMY-CR, MI

REVIEWER ACTIVITIES
AIR FORCE-82
DLA-IS

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Solicitation for all new engineering and design applications and for reproduction use shall be made from this document unless applicable.

INTERCHANGEABILITY RELATIONSHIP

MS21048 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 BOLTS; DIMPLED OR COUNTERSUNK RIVET BOLTS OR PROJECTION WELDING), BUT THESE AN362, AN366, NAS680 AND NAS1023 NUTS CANNOT UNIVERSALLY REPLACE MS21048 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER	CANCELLED PART NUMBER	SUBSTITUTIVE PART NUMBER
NAS1023CD4	MS21048-04	NAS1023C6	MS21048-6
NAS1023CD4K	MS21048-04K	NAS1023CDN	MS21048-6N
NAS1023CD4W	MS21048-04W	NAS1023C7	MS21048-7
NAS1023CD6	MS21048-06	NAS1023C7W	MS21048-7W
NAS1023CD6K	MS21048-06K	NAS1023C8	MS21048-8
NAS1023CD6W	MS21048-06W	NAS1023CDN	MS21048-8N
NAS1023CD8	MS21048-08	NAS1023C9	MS21048-9
NAS1023CD8K	MS21048-08K	NAS1023C9W	MS21048-9W
NAS1023CD8W	MS21048-08W	NAS1023C10	MS21048-10
NAS1023C3	MS21048-3	NAS1023C10W	MS21048-10W
NAS1023C3K	MS21048-3K	—	—
NAS1023C3W	MS21048-3W	—	—
NAS1023C4	MS21048-4	—	—
NAS1023C4K	MS21048-4K	—	—
NAS1023C4W	MS21048-4W	—	—
NAS1023C5	MS21048-5	—	—
NAS1023C5K	MS21048-5K	—	—
NAS1023C5W	MS21048-5W	—	—

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS			SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS			SUBSTITUTIVE PART NUMBERS
—	—	NAS680CD4	MS21048-04	—	—	NAS680C3N	MS21048L3
—	—	NAS680CD4K	MS21048-04K	—	—	NAS680C3N	MS21048L3K
—	—	—	MS21048-04W	—	—	—	MS21048L3W
—	—	NAS680CD4W	MS21048L04	AN362C428	AN366MC1032	NAS680C4	MS21048-4
—	—	NAS680CD4W	MS21048L04K	—	—	NAS680C4K	MS21048-4K
—	—	—	MS21048L04W	AN362MC428	—	—	MS21048-4W
AN362C632	—	NAS680CD6	MS21048-06	—	—	—	MS21048L4N
—	—	NAS680CD6K	MS21048-06K	—	—	NAS680C4N	MS21048L4
AN362MC632	—	—	MS21048-06W	—	—	NAS680C4N	MS21048L4K
—	AN366MC632B	—	MS21048L06	—	—	—	MS21048L4W
—	—	NAS680CD6W	MS21048L06	AN362C524	AN366MC428B	NAS680C5	MS21048-5
—	—	NAS680CD6W	MS21048L06K	—	—	NAS680C5K	MS21048-5K
AN362C832	—	NAS680CD8	MS21048-08	AN362MC524	—	NAS680C5N	MS21048-5N
—	—	NAS680CD8K	MS21048-08K	—	—	NAS680C5N	MS21048L5
AN362MC832	—	—	MS21048-08W	—	—	NAS680C5N	MS21048L5K
—	AN366MC832B	—	MS21048L08	AN362C624	AN366MC524	NAS680C6	MS21048-6
—	—	NAS680CD8W	MS21048L08	AN362MC624	—	—	MS21048-6W
—	—	NAS680CD8W	MS21048L08K	—	—	NAS680C6N	MS21048L6
AN362C1032	—	NAS680C3	MS21048-3	—	—	NAS680C7	MS21048-7
—	—	NAS680C3K	MS21048-3K	—	—	—	MS21048-7W
AN362MC1032	—	—	MS21048-3W	—	—	—	MS21048L7
—	AN366MC1032B	—	MS21048L3N	—	—	—	MS21048L7W

USER ACTIVITIES
ARMY-CR,MIREVIEWER ACTIVITIES
AIR FORCE-82
DLA-IS

This military standard is approved for use by all Departments and Agencies of the Department of Defense.
Deletion for all new engineering and design applications and for repurchases shall be made from this document when applicable.

PA
NAVY-AS
ARMY-AV
AIR FORCE-IIINTERNATIONAL
INTERESTTITLE
NUT, SELF-LOCKING, PLATE, TWO LUG,
LOW HEIGHT, CRES, 125 KSI F_{tu},
450° AND 800° F

MILITARY STANDARD

MS21048

PROCUREMENT SPECIFICATION
MIL-N-25027

SUPERSEDES

AN362, AN366, NAS680, NAS1023 IN PART

PAGE 3 OF 3