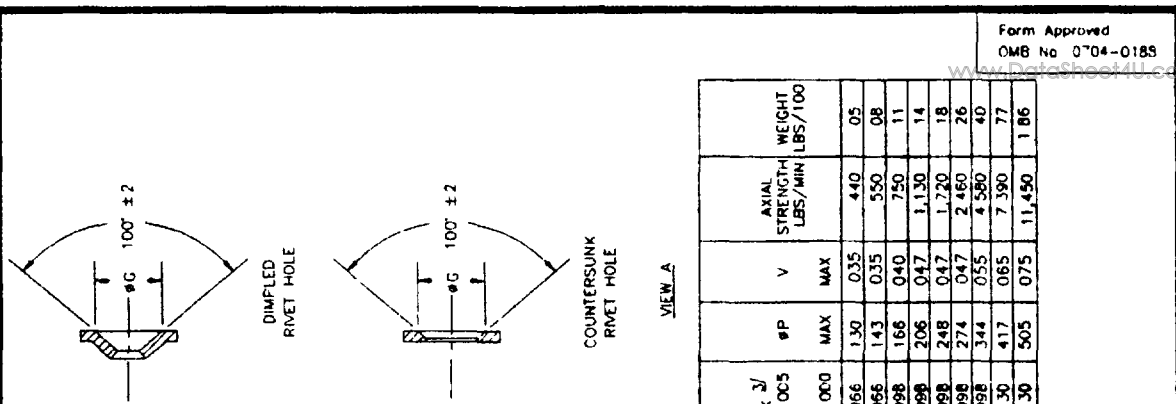


THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

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



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

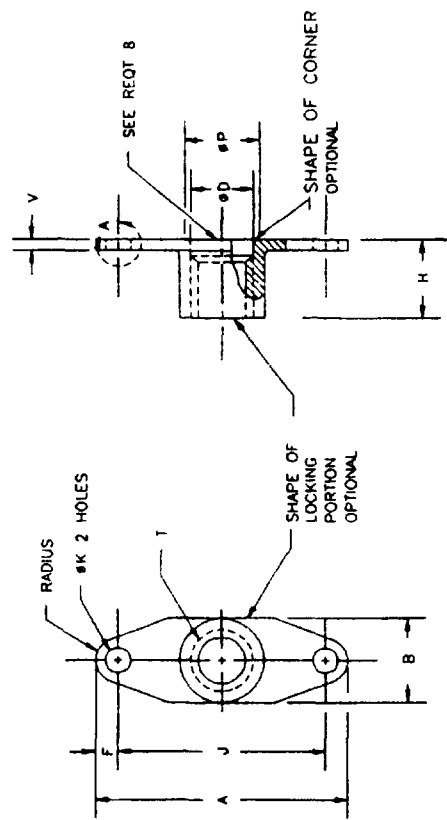


TABLE 1 DASH NUMBERS AND DIMENSIONS

DASH NUMBERS	PLAN RIVET HOLES		COUNTERSUNK OR DIMPLED RIVET HOLES		T THREAD SIZES	A		B		D MIN	F MIN	G MAX	H MAX	J MAX	K MAX	P MAX	V MAX	AXIAL STRENGTH LBS/MIN LBS/100	WEIGHT LBS/100
	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT	NON-DRY FILM LUBRICANT	DRY FILM LUBRICANT		MAX	MIN	MAX	MIN										
-02					086-56UNJC-38	410	162	140	110	071	071	071	110	250	066	130	035	440	05
-03					089-48UNJC-38	425	184	140	125	071	071	071	125	265	066	143	035	550	08
-04					112-40UNJC-38	630	260	140	143	089	089	089	200	408	098	166	040	750	11
-06					138-32UNJC-38	661	285	195	171	089	089	089	200	437	098	206	047	1,130	14
-08					164-32UNJC-38	692	297	230	250	100	100	100	250	468	098	248	047	1,720	18
-3					190-32UNJC-38	724	328	298	281	100	100	100	250	500	098	274	047	2,460	26
-4					250-28UNJC-38	766	414	380	328	125	125	125	300	562	098	344	055	4,580	40
-5					3125-24UNJC-38	1006	505	475	378	125	125	125	328	718	130	417	065	7,390	77
-6					375-24UNJC-38	1116	614	580	344	125	125	125	344	828	130	505	075	11,450	166

V MINIMUM "H" NOT SPECIFIED LIMITED ONLY BY STRENGTH REQUIREMENTS OF SPECIFICATION  
 J 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  
 J DIMPLED RIVET HOLE TOLERANCE FOR "K" IS + 015 - 000  
 J SPACE WILL NOT PERMIT COUNTERSINK

(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 5310-1955

MILITARY SPECIFICATION SHEET  
 TITLE  
 NUT, SELF-LOCKING PLATE, TWO-LUG,  
 REDUCED RIVET SPACING, LOW HEIGHT,  
 STEEL, 125 KSI F<sub>10</sub>, 450F

SPECIFICATION SHEET NUMBER  
 MS21069 1 FEB 94  
 REV C  
 SUPERSEDING  
 MS21069 F 30 SEPT 87 (SEE NOTE 5)  
 AMSC- N/A FSC 5310

DISTRIBUTION STATEMENT  
 A. Approved for public release distribution is unlimited

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

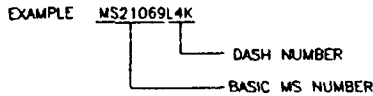
THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE

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**REQUIREMENTS**

- (C) 1 **MATERIAL** CARBON STEEL COMPOSITIONS 1035 (UNS G10350), 1040 (UNS G1040) AND 1050 (UNS G10500) IN ACCORDANCE WITH ASTM A827 OR 00-S-700, 1042 (UNS G10420), IN ACCORDANCE WITH ASTM A29 ALLOY STEEL GRADES 4130 (UNS G41300), 4140 (UNS G41400) AND 4140 (UNS G41400) IN ACCORDANCE WITH ASTM A29
- 2 **FINISH** CADMIUM PLATE IN ACCORDANCE WITH QQ-P-416 TYPE II CLASS 3 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
- (C) 8 **EDGES** BREAK ALL SHARP EDGES AND REMOVE ALL BURPS
- 9 **COUNTERBORE/COUNTERSINK** ON SIZE 164 AND LARGER THREAD RELIEF SHALL BE 0.02 MINIMUM ON SIZE 138 AND SMALLER COUNTERSINK TO "P" DIAMETER
- 10 **PART NUMBER** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I



MS21069L4K INDICATES NUT SELF-LOCKING PLATE TWO LUG REDUCED RIVET SPACING LOW HEIGHT STEEL 125 KSI Flu, 450F 250-28UNF-3B, DRY FILM LUBRICATION COUNTERSUNK OR DIMPLED RIVET 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 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 MS3358B ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED
- 5 MS21069 SUPERSEDES NAS697

**INTERCHANGEABILITY RELATIONSHIP**

MS21069 NUTS CAN UNIVERSALLY REPLACE NAS697 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 NAS697 NUTS CANNOT UNIVERSALLY REPLACE MS21069 NUTS

**INTERCHANGEABILITY TABLE**

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS	CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS697X02	MS21069-02	NAS697X3K	MS21069-3K
NAS697A02	MS21069L02	NAS697A3K	MS21069L3K
NAS697X03	MS21069-03	NAS697X4	MS21069-4
NAS697A03	MS21069L03	NAS697A4	MS21069L4
NAS697X04L	MS21069-04	NAS697X4K	MS21069-4K
NAS697A04L	MS21069L04	NAS697A4K	MS21069L4K
NAS697X04LK	MS21069-04K	NAS697X5	MS21069-6
NAS697A04LK	MS21069L04K	NAS697A5	MS21069L6
NAS697X06L	MS21069-06	NAS697X5K	MS21069-6K
NAS697A06L	MS21069L06	NAS697A5K	MS21069L6K
NAS697X06LK	MS21069-06K	NAS697X6	MS21069-6
NAS697A06LK	MS21069L06K	NAS697A6	MS21069L6
NAS697X08	MS21069-08		
NAS697A08	MS21069L08		
NAS697X08K	MS21069-08K		
NAS697A08K	MS21069L08K		
NAS697X3	MS21069-3		
NAS697A3	MS21069L3		

PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 11 DLA- REVIEW 82 USER CR, MI PROJECT NUMBER 5310-1955	<b>MILITARY SPECIFICATION SHEET</b> TITLE NUT, SELF-LOCKING, PLATE TWO LUG, REDUCED RIVET SPACING, LOW HEIGHT STEEL, 125 KSI Flu, 450F	SPECIFICATION SHEET NUMBER <b>MS21069</b> 1 FEB 94 REV G
		SUPERSEDING MS21069 F 30 SEPT 87 (SEE NOTE 5)
		AMSC- N/A FSC 5310

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