

RATIONALE

REVISION REQUIRED TO ADD AN ALTERNATE MATERIAL.

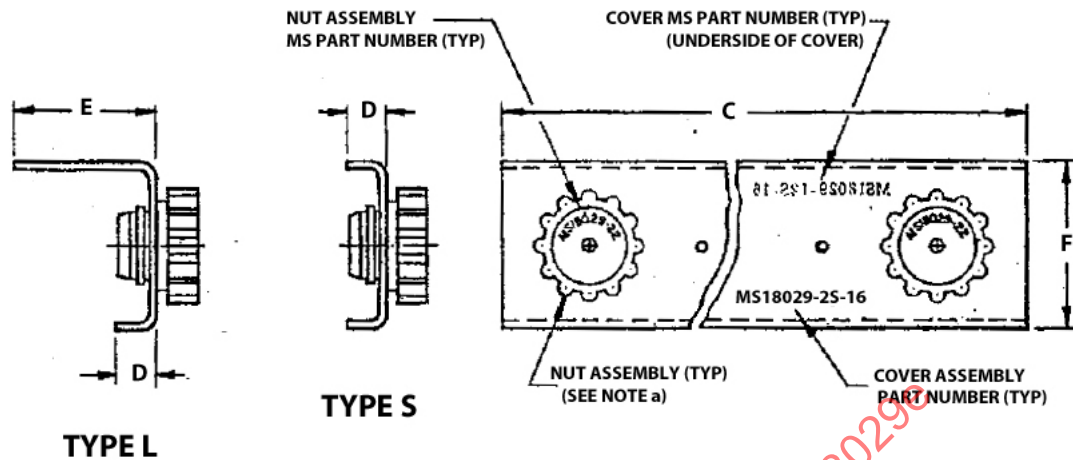


FIGURE 1 - COVER ASSEMBLY

NOTE (a): COVER ASSEMBLIES MS18029-1L-2 OR MS18029-1S-2 USE NUT ASSEMBLY MS18029-21 (QTY 1). ALL OTHERS REQUIRE TWO NUT ASSEMBLIES.

TABLE 1 - DIMENSIONS

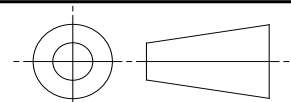
ASSEMBLY NO.	COVER DASH NO.		STUDS		NUT ASSEMBLY DASH NO.	C (REF)	D (REF)	E (REF)	F (REF)
	TYPE L	TYPE S	(N) MAX	SIZE					
MS18029-1(*)-(N)	-11L-(N)	-11S-(N)	20	.138-32	-21	12.334	.234	.734	.813
MS18029-2(*)-(N)	-12L-(N)	-12S-(N)	16	.190-32	-22	12.454	.234	.906	1.063
MS18029-3(*)-(N)	-13L-(N)	-13S-(N)	8	.250-28	-23	12.641	.375	1.312	1.500
MS18029-4(*)-(N)	-13L-(N)	-13S-(N)	8	.312-24	-24	12.641	.375	1.312	1.500
MS18029-5(*)-(N)	-13L-(N)	-13S-(N)	8	.375-24	-25	12.641	.375	1.312	1.500
MS18029-6(*)-(N)	-14L-(N)	-14S-(N)	16	.164-32	-26	12.454	.234	.734	.813

(*) USE LETTER L OR S TO INDICATE TYPE COVER DESIRED.

(N) INDICATES THE NUMBER OF STUDS IN A MS27212 TERMINAL BOARD ASSEMBLY TO BE COVERED.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS18029E/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: NONE



AEROSPACE STANDARD

COVER ASSEMBLY, ELECTRICAL,
FOR MS27212
TERMINAL BOARD ASSEMBLY

AS18029™
SHEET 1 OF 5

REV.
E

GENERAL REQUIREMENTS:

1. EXAMPLE OF PART NUMBER:

MS18029-2S-16 INDICATES A COVER ASSEMBLY FOR A MS27212 TERMINAL BOARD ASSEMBLY HAVING 16 STUDS, .190-32 UNF.

THIS COVER ASSEMBLY WILL CONSIST OF THE FOLLOWING:

- a. MS18029-12S-18 TYPE S COVER
- b. MS18029-22 NUT ASSEMBLIES

COVER ASSEMBLY MS PART NUMBER SHALL BE MARKED ON TOP OF COVER.

2. THE GOVERNMENT SERVICES SHALL PROCURE AND STOCK ONLY COVERS MS18029-11L-20, -11S-20, -12L-16, 12S-16, -13L-8, 13S-8, -14L-16, 14S-18, AND NUT ASSEMBLIES MS18029-21 THROUGH -26.
3. THE INSTALLING ACTIVITY SHALL ASSEMBLE COVER ASSEMBLIES FROM PARTS TO BE STOCKED.
4. (N) CODE IS FOR INDUSTRY USE ONLY, FOR THE PROCUREMENT OF COVER ASSEMBLIES OF VARIOUS LENGTHS.
5. COVER ASSEMBLIES ARE NOT TO BE USED IN INSTALLATIONS WHERE THE TEMPERATURE EXCEEDS 475 °F.
6. A MINIMUM OF THREE THREADS MUST BE EXPOSED AFTER TERMINAL STACKING ON THE END STUDS FOR COVER INSTALLATION.
7. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS ARE THE ISSUES IN EFFECT ON DATE OF INVITATIONS FOR BID.

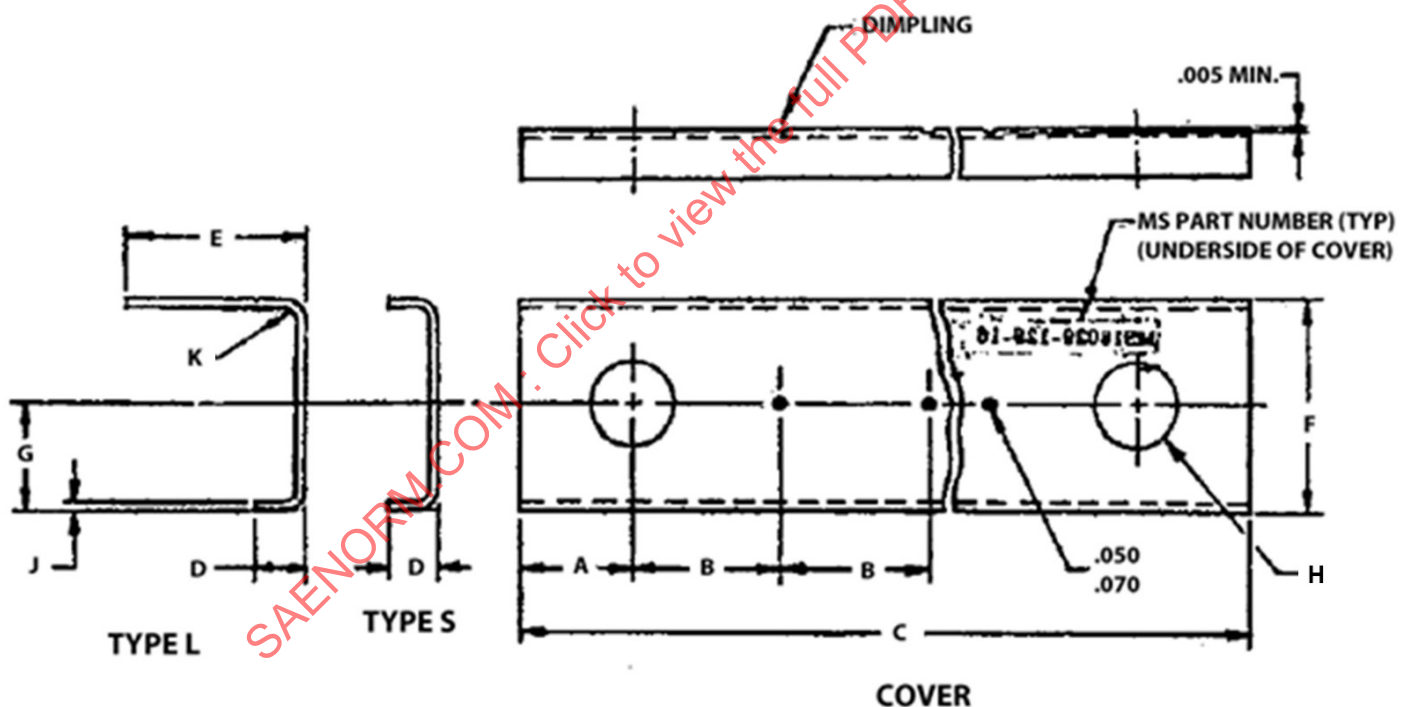


FIGURE 2 - COVER ASSEMBLY

	AEROSPACE STANDARD	AS18029™ SHEET 2 OF 5	REV. E
	COVER ASSEMBLY, ELECTRICAL, FOR MS27212 TERMINAL BOARD ASSEMBLY		

TABLE 2 - DIMENSIONS

MS DASH NO.		STUD SIZE (REF)	MAX NO. OF STUDS (REF)	A	B ±.016	C MAX (REF)	D ±.030	E ±.030 TYPE L	F	G	H DIA ±.002	J ±.010	K RAD
TYPE L	TYPE S												
-11L-(N)	-11S-(N)	.138-32	20	.515	.594	12.334	.234	.734	.813	.406	.430	.034	.062
-12L-(N)	-12S-(N)	.190-32	16	.593	.750	12.454	.234	.906	1.063	.531	.430	.034	.062
-13L-(N)	-13S-(N)	.250-28	8	1.062	1.500	12.641	.375	1.312	1.500	.750	.664	.050	.125
-13L-(N)	-13S-(N)	.312-24	8	1.062	1.500	12.641	.375	1.312	1.500	.750	.664	.050	.125
-13L-(N)	-13S-(N)	.375-24	8	1.062	1.500	12.641	.375	1.312	1.500	.750	.664	.050	.125
-14L-(N)	-14S-(N)	.164-32	16	.593	.750	12.454	.234	.734	.813	.406	.430	.034	.062

COVER ASSEMBLY REQUIREMENTS:

1. MATERIAL: PLASTIC, LAMINATE, RESIN GRADE G7 B-STAGE, GLASS-SILICONE IMPREGNATE CONSISTING OF GLASS FABRIC (U.S. STYLE 7628, PLAIN WEAVE) WITH METHYL SILICONE RESIN BINDER. B-STAGE STANDARD THICKNESS .0068 TO .0078 INCH NOMINAL, RESIN CONTENT: 22 TO 38%, RESIN FLOW: 5 TO 15%. LAMINATING PRESSURE: 2000 PSI MAX. LAMINATING TEMPERATURE: 380.0 °F MAX, AND LAMINATING TIME AT PRESSURE AND TEMPERATURE: 1 HOUR 10 MINUTES MAX.
2. TOLERANCE BETWEEN ANY TWO "B" DIMENSIONS SHALL BE WITHIN ±.010.
3. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.016.
4. DIMPLES (INK MARK OR LASER MARK IS ACCEPTABLE IN LIEU OF DIMPLE) ARE NECESSARY ONLY WHEN PROCURED BY THE GOVERNMENT IN FULL LENGTH UNASSEMBLED FORM FOR ALTERATION TO SHORTER CONFIGURATION AS NEEDED. DIMPLING IS TO ENSURE CORRECT POSITIONING OF HOLE FOR THE NUT ASSEMBLY WHEN COVER IS USED ON TERMINAL BOARD ASSEMBLY HAVING LESS STUDS THAN MAXIMUM NUMBER SPECIFIED IN TABLE 2.
5. EXAMPLE OF CALLOUT FOR SHORTER LENGTHS: MS18029-13L-5 IS A COVER OF THE TYPE L WITH TWO .334 DIA HOLES SPACED 6.00 INCHES FROM CENTER TO CENTER. THIS COVER WHEN ASSEMBLED WITH TWO MS18029-23 NUT ASSEMBLIES BECOMES COVER ASSEMBLY MS18029-3L-5 AND IS USED TO COVER TERMINAL BOARD ASSEMBLY MS27212-3-5.
6. COVER MS PART NUMBER SHALL BE MARKED ON UNDERSIDE OF COVER.
7. VISUAL INSPECTION FOR WORKMANSHIP AND FOREIGN MATERIAL SHALL BE IN ACCORDANCE WITH TABLE V OF MIL-P-25518.
8. REVISION INDICATOR: A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISION. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS, NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

	AEROSPACE STANDARD	AS18029™ SHEET 3 OF 5	REV. E
	COVER ASSEMBLY, ELECTRICAL, FOR MS27212 TERMINAL BOARD ASSEMBLY		

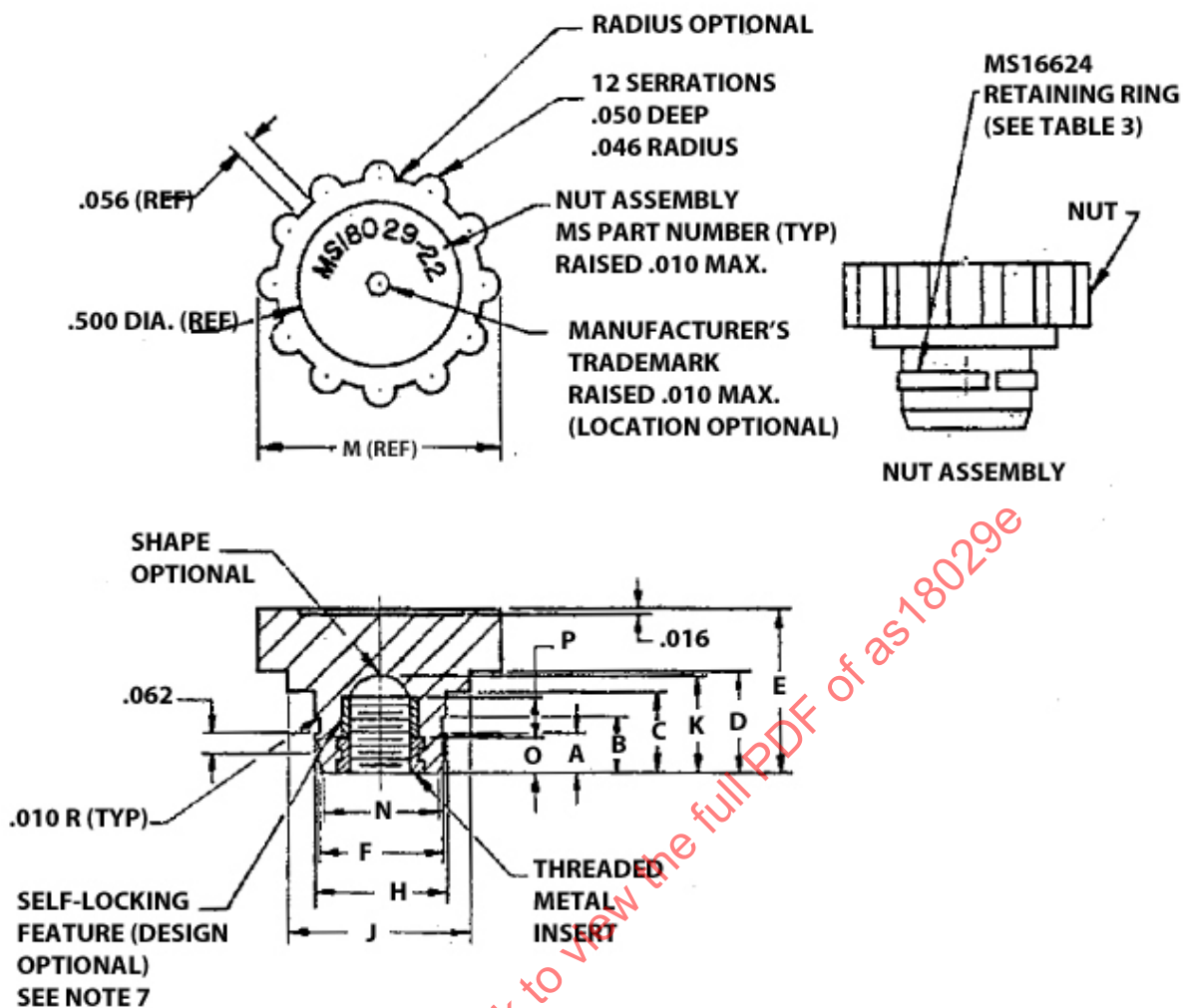


FIGURE 3 - NUT ASSEMBLY CONFIGURATIONS

	AEROSPACE STANDARD		AS18029™ SHEET 4 OF 5	REV. E
	COVER ASSEMBLY, ELECTRICAL, FOR MS27212 TERMINAL BOARD ASSEMBLY			