FEDERAL SUPPLY CLASS
5935

RATIONALE

AS85049/96C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS85049.

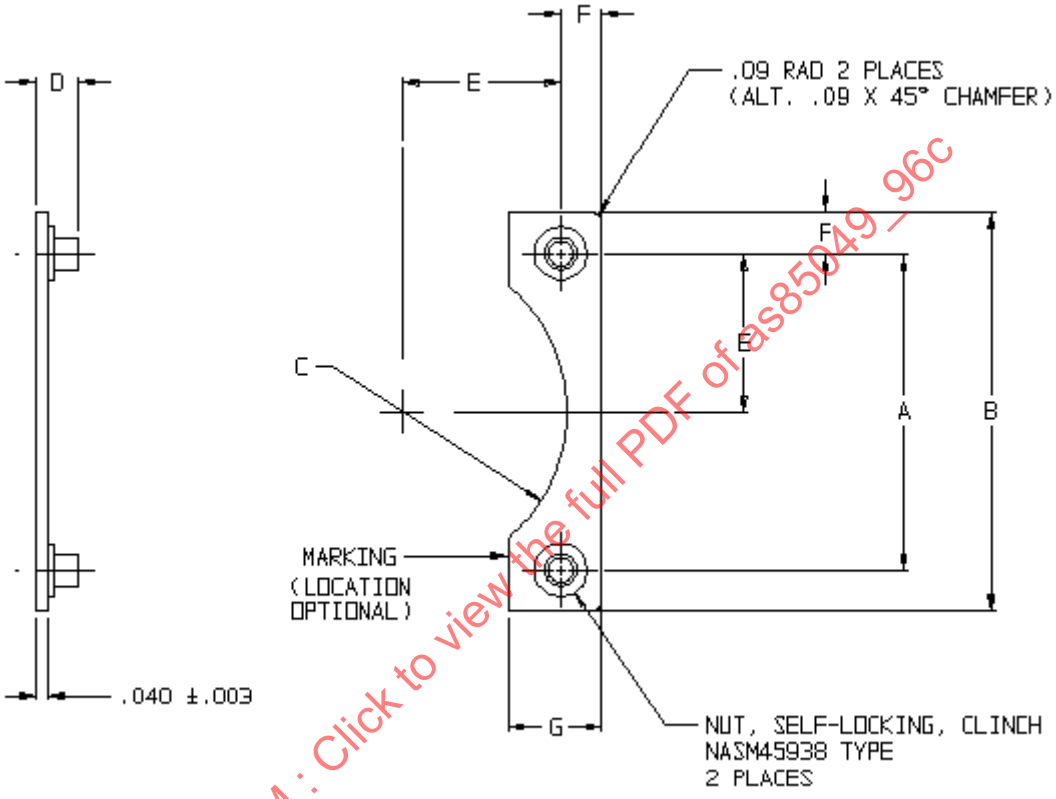
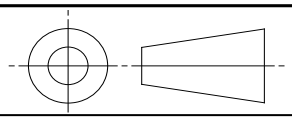


FIGURE 1 – CONFIGURATION AND DIMENSIONS

For more information on this standard, visit
https://www.sae.org/standards/content/AS85049/96C

THIRD ANGLE PROJECTION



ISSUED 2001-07 REVISED 2011-05 REAFFIRMED 2021-04

CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS85049

SAE INTERNATIONAL

AEROSPACE STANDARD

CONNECTOR ACCESSORIES, ELECTRICAL, MOUNTING DEVICE, FLANGE TYPE, CATEGORY 7, 1/4 PERIMETER

TO PLACE A DOCUMENT ORDER: **Tel: 877-606-7323 (inside USA and Canada)** **Tel: +1 724-776-4970 (outside USA)**
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TABLE 1 - DIMENSIONS

DASH NUMBER	THRD UNJC -3B	A ± .005	B MAX	C (MIN)	D	E ± .005	F (REF)	G MAX
3	4-40	.625 (15.88)	.940 (23.88)	.320 (8.13)	.106 (2.69) .166 (4.22)	.312 (7.92)	.150 (3.81)	.310 (7.87)
7	4-40	.719 (18.26)	1.034 (26.26)	.329 (8.36)	.106 (2.69) .166 (4.22)	.359 (9.12)	.149 (3.78)	.308 (7.82)
8	4-40	.594 (15.09)	.906 (23.01)	.262 (6.65)	.106 (2.69) .166 (4.22)	.297 (7.54)	.148 (3.76)	.306 (7.77)
10	4-40	.719 (18.26)	1.034 (26.26)	.344 (8.74)	.106 (2.69) .166 (4.22)	.359 (9.12)	.149 (3.78)	.308 (7.82)
12	4-40	.812 (20.62)	1.124 (28.55)	.410 (10.41)	.106 (2.69) .166 (4.22)	.406 (10.31)	.148 (3.76)	.306 (7.77)
14	4-40	.906 (23.01)	1.218 30.94)	.492 (12.50)	.106 (2.69) .166 (4.22)	.453 (11.51)	.148 (3.76)	.306 (7.77)
16	4-40	.969 (24.61)	1.295 (32.89)	.532 (13.51)	.106 (2.69) .166 (4.22)	.484 (12.29)	.149 (3.78)	.308 (7.82)
18	4-40	1.062 (26.97)	1.405 (35.69)	.610 (15.49)	.106 (2.69) .166 (4.22)	.531 (13.49)	.164 (4.17)	.338 (8.59)
19	4-40	.906 (23.01)	1.218 (30.94)	.461 (11.71)	.106 (2.69) .166 (4.22)	.453 (11.51)	.148 (3.76)	.306 (7.77)
20	4-40	1.156 (29.36	1.550 (39.37)	.657 (16.69)	.106 (2.69) .166 (4.22)	.578 (14.68)	.177 (4.50)	.364 (9.25)
22	4-40	1.250 (31.75)	1.680 (42.67)	.724 (18.39)	.106 (2.69) .166 (4.22)	.625 (15.88)	.195 (4.95)	.400 (10.16)
24	6-32	1.375 (34.93)	1.800 (45.72)	.782 (19.86)	.123 (3.12) .183 (4.65)	.687 (17.45)	.193 (4.90)	.396 (10.06)
25	6-32	1.500 (38.10)	1.906 (48.41)	.814 (20.68)	.123 (3.12) .183 (4.65)	.750 (19.05)	.179 (4.55)	.368 (9.35)
27	4-40	.969 (24.61)	1.281 (32.54)	.547 (13.89)	.106 (2.69) .166 (4.22)	.484 (12.29)	.149 (3.78)	.308 (7.82)
28	6-32	1.562 (39.67)	2.015 (51.18)	.895 (22.73)	.123 (3.12) .183 (4.65)	.781 (19.84)	.219 (5.56)	.448 (11.38)
32	6-32	1.750 (44.45)	2.327 (59.11)	1.016 (25.81)	.123 (3.12) .183 (4.65)	.875 (22.23)	.281 (7.14)	.572 (14.53)
36	6-32	1.938 (49.23)	2.515 (63.88)	1.141 (28.98)	.123 (3.12) .183 (4.65)	.969 (24.61)	.281 (7.14)	.572 (14.53)
37	4-40	1.187 (30.15)	1.515 (38.48)	.625 (15.88)	.106 (2.69) .166 (4.22)	.593 (15.06)	.157 (3.99)	.324 (8.23)
61	4-40	1.437 (36.50)	1.827 (46.41)	.732 (18.59)	.106 (2.69) .166 (4.22)	.718 (18.24)	.188 (4.78)	.386 (9.80)

NOTES:

1. DIMENSIONS ARE INCHES.
2. UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± .010.
3. FOR MOUNTING FLANGE CONNECTOR APPLICATION DATA, SEE TABLE 2.

REQUIREMENTS:

DESIGN AND CONSTRUCTION:

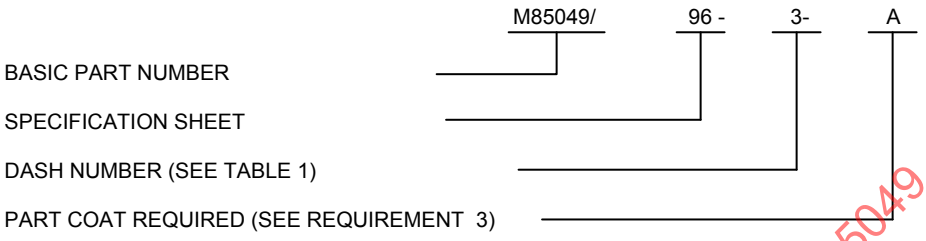
1. DIMENSIONS AND CONFIGURATION SHALL BE IN ACCORDANCE WITH FIGURE1, TABLE 1.
2. FIGURE 1, MOUNTING FLANGES SHALL BE OF A CONSTRUCTION WITH PREDRILLED OR PUNCHED HOLES IN ALUMINUM ALLOY INCORPORATING SELF LOCKING NUTS, CLINCH TYPE.

3. MATERIAL AND FINISH: FLANGES, ALUMINUM ALLOY IAW SAE AS85049, CHEMICAL CONVERSION COATING PER MIL-DTL-5541, CLASS 1A. WHEN SPECIFIED IN THE PART NUMBER, BY LETTER 'A' DESIGNATOR, 2 COATS OF EPOXY POLYAMIDE PRIMER PER MIL-PRF-23377, TYPE I, SHALL BE APPLIED EITHER BEFORE OR AFTER NUT INSTALLATION AND OVERSPRAY IS ALLOWED PROVIDED THE PERFORMANCE CHARACTERISTICS OF THE NUT ARE NOT DEGRADED AND ALL OTHER REQUIREMENTS ARE MET.

4. CLINCH NUTS: IN ACCORDANCE WITH NASM45938, CLEAN AND DE-SCALE IN ACCORDANCE WITH ASTM A 380 AND/OR PASSIVATED IN ACCORDANCE AMS-QQ-P-35 OR AMS2700, FOLLOWED BY A SOLID FILM LUBRICANT COATING PER MIL-PRF-46010.

5. PART NUMBER: SEE EXAMPLE BELOW.

EXAMPLE:



6. QUALIFICATION: SEE SAE AS85049, CATEGORY 7, WITH THE FOLLOWING ADDITIONS:

A. INSTALLATION: WHEN TESTED AS SPECIFIED HEREIN EVIDENCE OF COCKING, LOOSENESS, SPLITS OR CRACKS SHALL BE CAUSE FOR REJECTION.

B. SALT SPRAY: IN ACCORDANCE WITH SAE AS85049, STANDARD TEST-96 HOUR DURATION FOR CHEMICAL CONVERSION COATED PARTS AND EXTENDED TEST, 500 HOUR DURATION FOR POLYAMIDE PRIMER COATED PARTS.

C. VIBRATION: IN ACCORDANCE WITH SAE AS85049, RANDOM VIBRATION-MEDIUM DUTY, EXCEPT UNWIRED, MOUNTED WITH A SQUARE FLANGE RECEPTACLE CONNECTOR.

D. SHOCK: IN ACCORDANCE WITH SAE AS85049, SHOCK-MEDIUM AND LIGHT DUTY, EXCEPT UNWIRED, MOUNTED WITH A SQUARE FLANGE RECEPTACLE CONNECTOR.

7. PERIODIC QUALIFICATION: SEE AS85049, CATEGORY 7, WITH THE FOLLOWING ADDITIONS:

A. LOCKING TORQUE IN ACCORDANCE WITH NASM25027.

B. TORQUE OUT IN ACCORDANCE WITH NASM45938, EXCEPT THE REQUIREMENT SHALL BE 15 IN LBS MINIMUM FOR 4-40 THREADED NUTS AND 20 IN LBS MINIMUM FOR 6-32 THREADED NUTS.

C. PUSH OUT IN ACCORDANCE WITH NASM45938, EXCEPT THE REQUIREMENT SHALL BE 88 LB MINIMUM FOR 4-40 THREADED NUTS AND 105 LB MINIMUM FOR 6-32 THREADED NUTS.

D. POST EXAMINATION.