

FED.SUPPLY CLASS

5999

MATERIAL:

EXTRUDED ALUMINUM ALLOY 2024 (UNS A92024), 6061 (UNS A96061) OR 6063 (UNS A96063) PER AMS-QQ-A-200, OR ALUMINUM SHEET OR PLATE 1100 (UNS A91100), 2024 (UNS A92024), 3003 (UNS A93003), 5052 (UNS A95052) OR 6061 (UNS A96061) PER AMS-QQ-A-250.

FINISH:

BLACK ANODIZE COATING CONFORMING TO MIL-A-8625, TYPE I OR TYPE II, CLASS 2.

HARD ANODIZE COATING CONFORMING TO MIL-A-8625, TYPE III, CLASS 2. THIS FINISH SHALL HAVE A MINIMUM THICKNESS OF .001 HARD ANODIZE COATING AND SHALL BE SODIUM DICHROMATE SEALED. THROUGH-HOLES, SHARP EDGES, AND THREADS MAY BE FURNISHED FREE OF ANODIZE, BUT IN SUCH CASES THESE SURFACES SHALL RECEIVE A CHEMICAL CONVERSION COATING IN ACCORDANCE WITH MIL-DTL-5541, CLASS 1A.

GOLD ANODIZE COATING CONFORMING TO MIL-A-8625, TYPE I OR TYPE II, CLASS 2.

PRE-ANODIZE COATING CONFORMING TO MIL-A-8625, TYPE II, CLASS 2 (PRE-ANODIZED COIL STOCK).

GOLD CHROMATE COATING CONFORMING TO MIL-DTL-5541, CLASS 1A. THIS FINISH IS INTENDED FOR USE ON HEAT SINKS SPECIFICALLY DESIGNATED TO BE ELECTRICALLY CONDUCTIVE. GOLD CHROMATE FINISH SHOULD NOT BE USED IN CORROSIVE OR SALT SPRAY ENVIRONMENTS WHERE OPERATING TEMPERATURES WILL EXCEED +60 °C (+140 °F) AND SALT SPRAY OR CORROSION RESISTANCE IS A NECESSITY.

CODE:

"A" AFTER DASH NUMBER DESIGNATES BLACK ANODIZE COATING.
"H" AFTER DASH NUMBER DESIGNATES HARD ANODIZE COATING.
"L" AFTER DASH NUMBER DESIGNATES GOLD ANODIZE COATING.
"P" AFTER DASH NUMBER DESIGNATES PRE-ANODIZE COATING.
"R" AFTER DASH NUMBER DESIGNATES GOLD CHROMATE COATING.

EXAMPLE OF PART NUMBER:

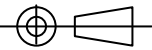
NAS4123-01A = ALUMINUM HEAT SINK, SHAPE PER FIGURE 1, CONFIGURATION A, .250 INCH HEIGHT, BLACK ANODIZE FINISH.

NAS4123-21P = ALUMINUM HEAT SINK, SHAPE AND DIMENSIONS PER FIGURE 1, CONFIGURATION F, PRE-ANODIZE COATING.

NOTES:

- (1) DIMENSIONS AND CONFIGURATIONS: SEE FIGURE 1.
- (2) THERMAL CHARACTERISTICS: SEE FIGURE 2.

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THIRD ANGLE PROJECTION 	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 1
PROCUREMENT SPECIFICATION NONE	TITLE HEAT SINK, ELECTRICAL-ELECTRONIC COMPONENT, SEMICONDUCTOR DEVICES, FOR DUAL INLINE PACKAGES (DIP)	CLASSIFICATION PART STANDARD NAS4123 SHEET 1 OF 16

- (3) MARKING: HEAT SINKS NEED NOT BE MARKED. PACKAGES SHALL BE MARKED WITH THE NAS PART NUMBER, QUANTITY, AND MANUFACTURER'S NAME OR CAGE CODE, AS A MINIMUM.
- (4) SUPPERSESSION DATA: SEE TABLE I.
- (5) DIMENSIONS IN INCHES AND APPLY AFTER FINISH UNLESS OTHERWISE SPECIFIED.
- (6) TOLERANCES UNLESS OTHERWISE SPECIFIED: DECIMALS $\pm .017$.
- (7) AT THE MANUFACTURER'S OPTION, FINS MAY DEViate FROM THE SHAPES SHOWN ON FIGURE 1, PROVIDED THE ENVELOPE DIMENSIONS ARE NOT EXCEEDED AND THE PERFORMANCE OF THE HEAT SINK IS NOT DEGRADED.
- (8) THERMAL CHARACTERISTICS GRAPHS ARE FOR COMPARISON OF CONFIGURATIONS WITHIN THIS STANDARD AND DO NOT NECESSARILY REFLECT ABSOLUTE VALUES.
- (9) THIS STANDARD REPLACES MIL-H-87111/7, HEAT SINKS, SEMICONDUCTOR DEVICES, CLASS 1, (FOR DUAL-IN-LINE PACKAGES).
- (10) THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
- (11) UNLESS OTHERWISE SPECIFIED, PART INVENTORY MANUFACTURED TO PREVIOUS REVISIONS OF THE APPLICABLE DRAWING OR SPECIFICATION MAY BE PROCURED AND USED UNTIL STOCK IS DEPLETED.
- (12) UNLESS OTHERWISE SPECIFIED HEREIN, REFERENCED DOCUMENTS SHALL BE THE ISSUE IN EFFECT ON DATE OF MANUFACTURE. HOWEVER, EXISTING MATERIAL INVENTORY CERTIFIED TO A PREVIOUS REVISION OF THE APPLICABLE MATERIAL SPECIFICATION(S) IS ACCEPTABLE FOR USE UNTIL DEPLETION.
- (13) DIMENSIONING AND TOLERANCING PER ANSI Y14.5-1982.
- /14/ AN ASTERISK IN THE PART NUMBER REPRESENTS A FINISH CODE LETTER. COMPLETE PART NUMBER SHALL INCLUDE A FINISH CODE.
- /15/ THE FINISH CODES (A, H, L, P AND R) IN BOTH MIL-H-87111/7 AND NAS4123 ARE IDENTICAL.

TABLE I – SUPERSESSION DATA

SUPERSEDED PART NUMBER /14/ /15/ M87111/07-	REPLACEMENT PART NUMBER /14/ /15/ NAS4123-	SUPERSEDED PART NUMBER /14/ /15/ M87111/07-	REPLACEMENT PART NUMBER /14/ /15/ NAS4123-
1A01	01A	1A14	14A
1A02	02A	1A15	15A
1A03	03A	1A16	16A
1*04	04*	1A17	17A
1*05	05*	1A18	18A
1*06	06*	1A19	19A
1*07	07*	1A20	20A
1*08	08*	1*21	21*
1A09	09A	1A22	22A
1A10	10A	1*23	23*
1A11	11A	1A23	24A
1A12	12A	1H23	25H
1A13	13A		

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SHEET 2



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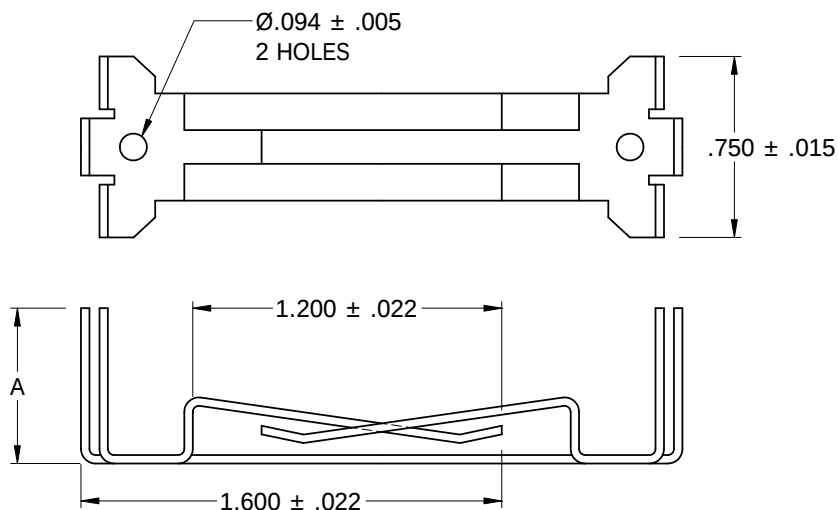
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DASH NUMBER	NUMBER OF PINS IN PACKAGE	A
01	20 TO 40	.250
02	20 TO 40	.500
03	20 TO 40	.750

CONFIGURATION A
(AVAILABLE IN FINISH A ONLY)

FIGURE 1 – CONFIGURATIONS AND DIMENSIONS

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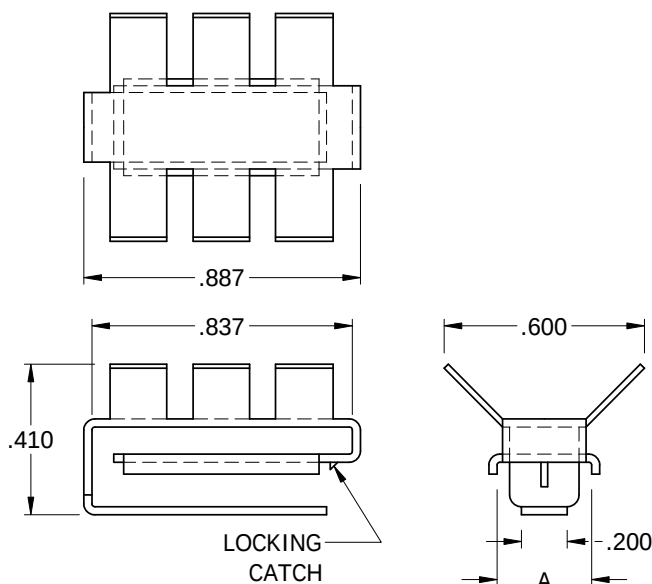
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DASH NUMBER	NUMBER OF PINS IN PACKAGE	A	NUMBER OF FINS
04	14 OR 16	.250	6
23	14 OR 16	.310	6

CONFIGURATION B
(AVAILABLE IN FINISHES A AND L ONLY)

FIGURE 1 – CONFIGURATIONS AND DIMENSIONS (CONTINUED)

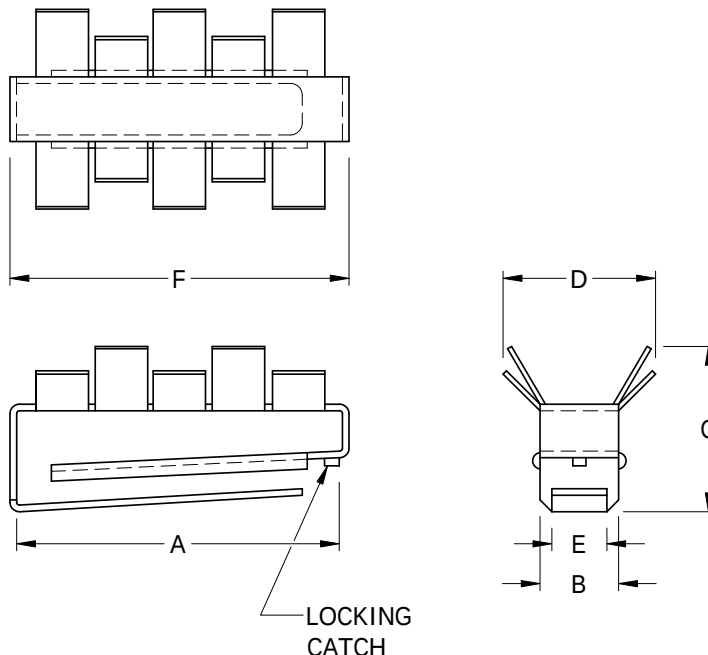
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DASH NUMBER	NUMBER OF PINS IN PACKAGE	DIMENSIONS						NUMBER OF FINS
		A	B	C	D	E	F	
05	18	.930	.250	.556	.700	.210	1.125	10
06	20	1.055	.250	.556	.700	.210	1.125	10
07	24	1.280	.540	.580	1.008	.480	1.460	12
08	40	2.090	.525	.590	.980	.480	2.256	20

CONFIGURATION C
(AVAILABLE IN FINISHES A AND L ONLY)

FIGURE 1 – CONFIGURATIONS AND DIMENSIONS (CONTINUED)

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