

Calmark offers the Series 109 narrow profile aluminum Card Extractor for safe and efficient extraction of Printed Circuit Board with limited available space. Single-side actuating foot design provides clearance for use on boards with "Card-Lok" clamping retainers. The Series 109 meets the requirements of DSCC 84191.

FEATURES

- Lever action provides mechanical advantage for efficient insertion and extraction of printed circuit board
- Meets requirements of DSCC 84191
- Narrow profile requires minimum board space
- Single-side actuating foot provides clearance for use with "Card-Lok" clamping retainers
- Strong aluminum or stainless material
- Available in colored finish for coding

MATERIALS/FINISH

EXTRACTOR

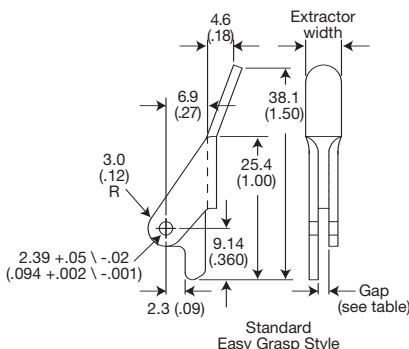
.063 thk. Aluminum Alloy, type 5052-H32 per QQ-A-250/8 Chem film or anodize finish (See part number code) or .063 thk. Stainless Steel, type 304 per ASTM-A666. Passivated per AMS-QQ-P-35

ROLL PIN

Stainless Steel, 2.38 (.093) x 4.75 (.187) long. -3 and -4 versions use 6.35 (.250) long



Series 109 - Extractor (Card-Lok Compatible)

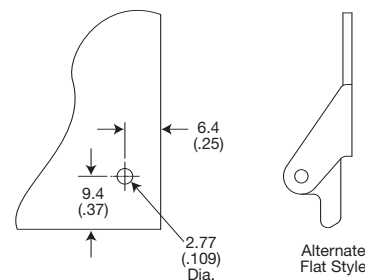


Board Thickness Dash No.	Board Thickness	Gap Dimension ± .013 (± .005)	Extractor Width Dimension
[blank]	1.6 (.063)	1.91 (.075)	6.4 (.25)
-3	2.3 (.094)	2.67 (.105)	6.4 (.25)
-4	3.2 (.125)	3.61 (.142)	7.4 (.29)

Units: mm (in)
Unless specified otherwise,
.xx = ± .25, .x = ± .5
(.xxx = ± .010, .xx = ± .02)

APPLICATION DATA

Two (2) extractors are recommended per board. (One "L" and one "R" per printed circuit board). Provides extraction travel of 11.4 (.45) minimum, with a mechanical advantage of 4.5:1



Part Number Code Series 109 Extractor

Prefix options

Prestarted pin option _____ P
Pin kitted with extractor _____ [blank]
Flat Style Handle _____ F
Easy Grasp Handle _____ [blank]

Suffix options

Material
.063" thk. Aluminum Alloy 5052-H2 _____ [blank]
.063" thk. Stainless Steel Type 304 _____ CR
Board Thickness
.063 (1.6) _____ [blank]
.093 (2.4) _____ -3
.125 (3.2) _____ -4
Right or Left Handle
Right (Shown) _____ R
Left (Opposite) _____ L
Finish
Chem Film Gold _____ [blank]
Or choose from finish table
ESD silkscreen _____ SED
No ESD silkscreen _____ [blank]

Part Number Code Example:

P109CR-4R-BLK-SED

Series 109 Extractor made from stainless steel with pre-start pin, made for .125 thick boards, anodized black with ESD silkscreen for a right handed extraction.

FINISH TABLE

Code Letter	Finish
[blank]	Chemical Film Gold
-BLK	Black Anodize
-BRN	Brown Anodize
-RED	Red Anodize
-ORG	Orange Anodize
-YEL	Yellow Anodize
-BLU	Blue Anodize
-GRN	Green Anodize
-PRP	Purple Anodize
-CLR	Clear Anodize