

## series 225 - "card-lok" retainer (cold plate)

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Calmark offers the Series 225 "Card-Lok" Retainer for cold plate-heat exchanger applications. A maximum efficiency heat sinking PC card retainer offered for the first time at an economical price.

## **FEATURES:**

Maximum Reliability

Screw-actuated wedge action locks PC cards in place.

Maximum Thermal Transfer

Wedge action design provides maximum contact between thermal paths on PC card and the heat sinking surface.

Maximum Resistance to Shock & Vibration

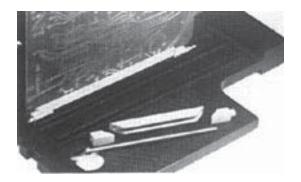
Wedge action design locks PC card in place to provide maximum resistance to shock and vibration.

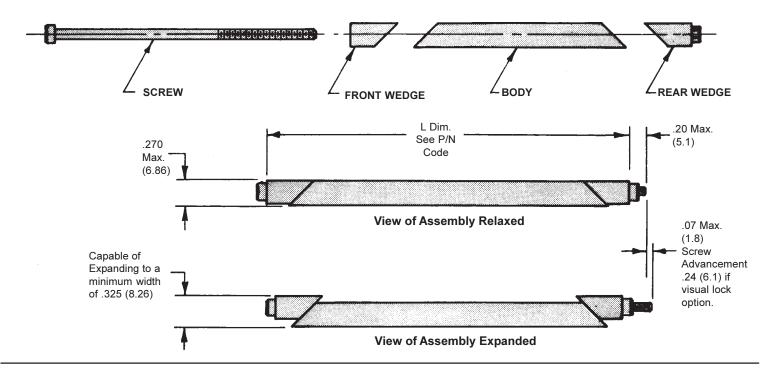
Zero Insertion & Extraction Forces

Screw actuation provides zero insertion and extraction force on PC card.

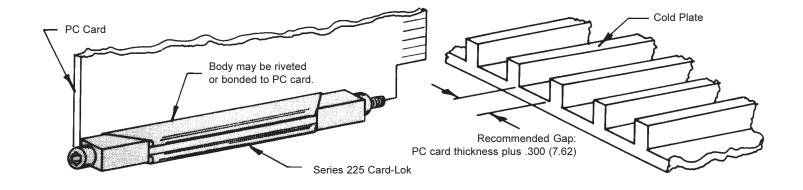
Design Flexibility

Special lenghts, finishes or other design variations available on request.





APPLICATION DATA: Recommended Torque - 6 in. lbs. (68 N-cm)





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option 2.5 across flats.)

## E-mail: sales@calmark.com (See P/N code below for metric **SCREW** Hex Socket Drive 3/32 4-40 UNC-2A across flats (2.39) Thread P/N 50253-Length 1 00 Material: Stainless Steel MIn QQ-S-763 or ASTM-A582 (25.4)(3.1)Finish: Passivate per MIL-S-5002 AMS-QQ-P35, ASTM -A967 Weight: .043 oz./inch (0.48g/cm) .18 Dia. Length +.00 -.09 (+0.0, -2.3) (4.6)Equal to L Dim. of assembly plus .20 (5.1) (With "R" or "W" option plus .30) (7.6) (With "R" & "W" option plus .40) (10.2)

.xxx = +/-.010, .xx = +/-.02**Tolerances:** 

(.xx = +/-0.25, .x = +/-0.5)

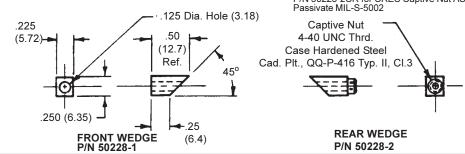
WEDGES P/N 50228-2CR for CRES Captive Nut ASTM Passivate MIL-S-5002 Material: Aluminum Alloy .125 Dia. Hole (3.18) 6061-T6, QQ-A-200/8

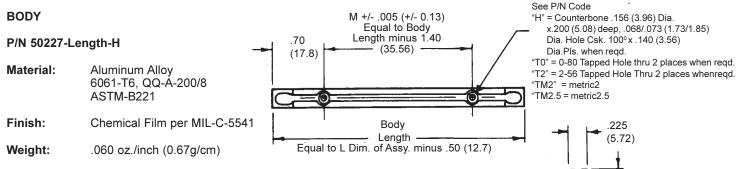
ASTM-B221 Finish: Chemical Film per MIL-C-5541

Weight: Front Wedge: .027 oz. (0.77g) Rear Wedge: .041 oz. (1.16g)

.xxx = +/-.010, .xx = +/-.02**Tolerances:** 

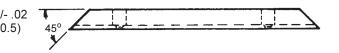
(.xx = +/-0.25, .x = +/-0.5)

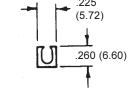




.xxx = +/-.010, .xx = +/-.02**Tolerances:** 

(.xx = +/-0.25, .x = +/-0.5)





Detail "L" (Suffix) Provides prevailing torque for resistance to loosening from shock vibration.

OPTIONAL DETAILS:

Lock strip per MIL-F-18240 applied to thread of screw

.33 (8.4) Detail "V" (Prefix).227 (5.77) .50 (12.7) Provides visual 165 lock indicator. Red band on Red band concealed inside cap head of screw exposed LOCKED **UNLOCKED** 

Detail "R" (Suffix) Prevents unintentional disassembly of screw from rear wedge. Suffix "R" to P/N uses an MS 21042-04 Locknut. For CRES uses MS21043-04 and .10 (2.54) longer screw.

.30 (7.6) MAX

Detail "W" (Prefix) Provides added resistance to loosening from shock and vibration. Prefix "**W**" to P/N uses an MS35338-135 Lockwasher and an NAS620C4 Flatwasher, and .10 (2.54) longer screw.

Flatwasher Lockwasher Front Wedge Screw

