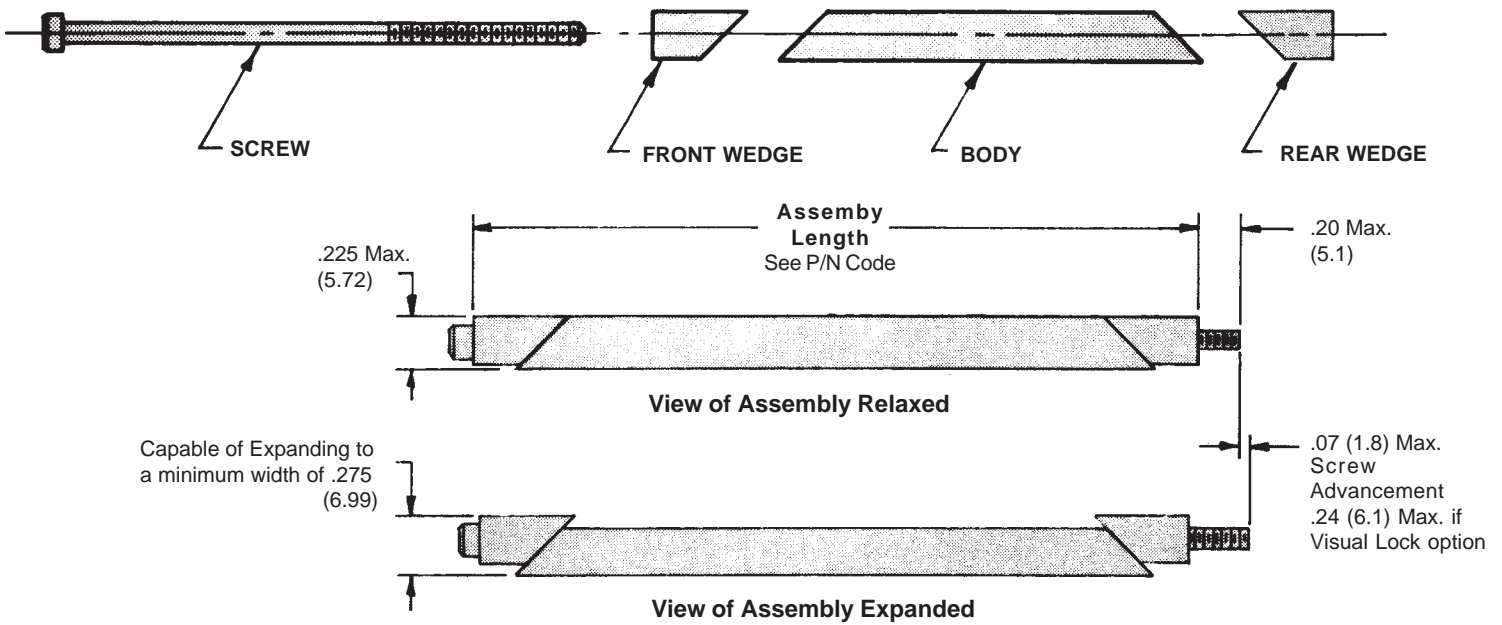
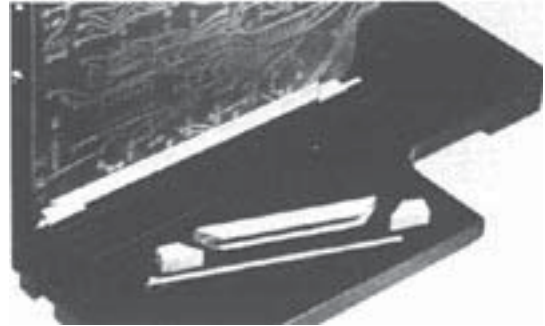


series 230 - "card-lok" retainer (cold plate)

Calmark offers the Series 230 "Card-Lok" retainer for cold plate - heat exchanger applications. A mid-width configuration, to meet PC card retainer expansion requirements between the Series 225 and 240.

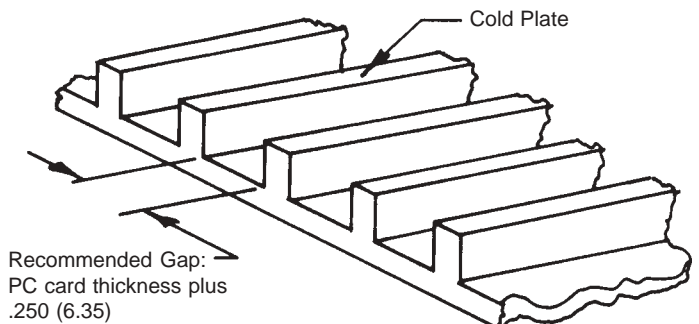
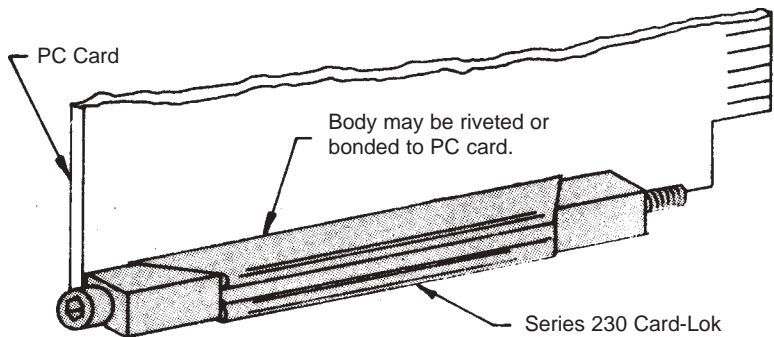
FEATURES:

- **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 lengths, finishes or other design variations available on request.



APPLICATION DATA:

Recommended Torque 6 in-lbs. (68 N-cm)
If Locking Element option add 1 to 2 in-lbs (11 to 22 N-cm)



SCREW

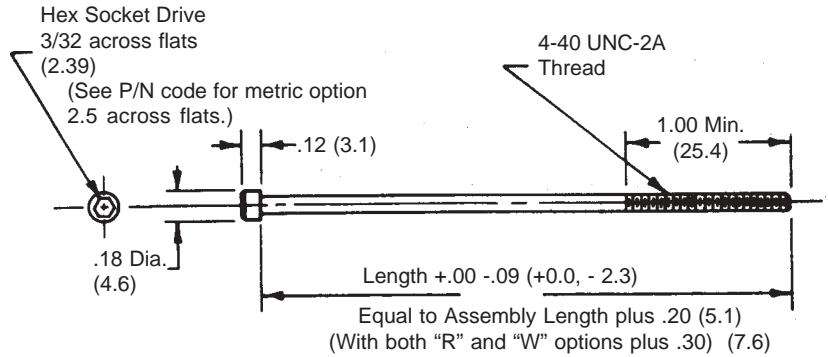
P/N 50253-Length

Material: Stainless Steel
QQ-S-763 or ASTM-A582

Finish: Passivate per MIL-S-5002

Weight: .043 oz./inch (0.48g/cm)

Tolerances: .xxx = +/- .010, .xx = +/- .02
(.xx = +/- 0.25, .x = +/- 0.5)



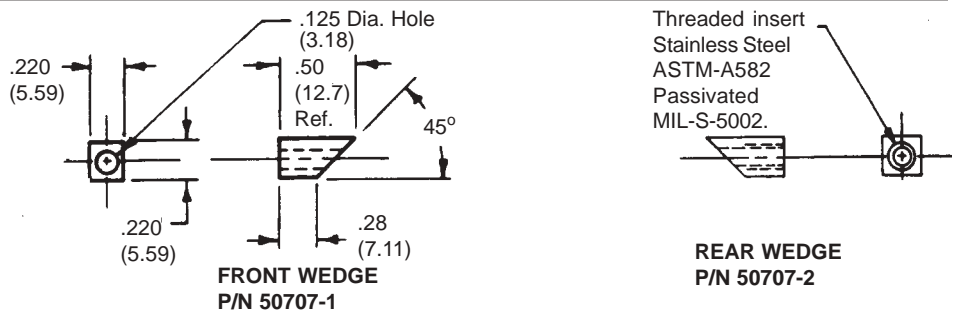
WEDGES

Material: Aluminum Alloy
6061-T6, ASTM-B221

Finish: See Part No. Code

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

Tolerances: .xxx = +/- .010, .xx = +/- .02
(.xx = +/- 0.25, .x = +/- 0.5)



BODY

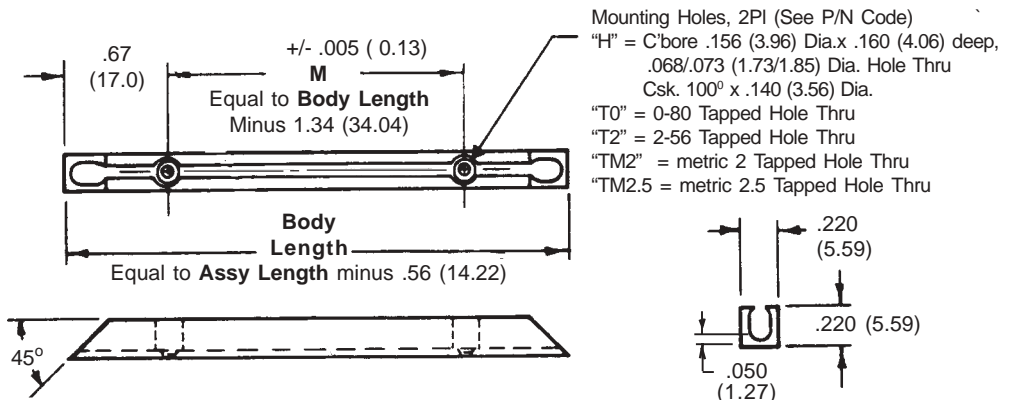
P/N 50542-Length-H

Material: Aluminum Alloy
6061-T6, ASTM-B221

Finish: See Part No. Code

Weight: .060 oz./inch (0.67g/cm)

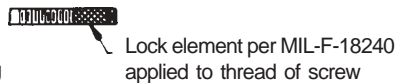
Tolerances: .xxx = +/- .010, .xx = +/- .02
(.xx = +/- 0.25, .x = +/- 0.5)



OPTIONAL DETAILS:

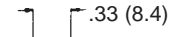
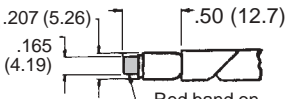
Detail "L" (Suffix)

Provides prevailing torque for resistance to loosening from shock vibration.



Detail "V" (Prefix)

Provides visual lock indicator.



Red band on head of screw exposed

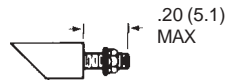
Red band concealed inside cap

UNLOCKED

LOCKED

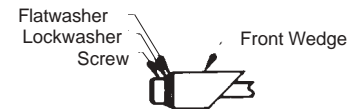
Detail "R" (Suffix)

Prevents unintentional disassembly of screw from rear wedge. Uses an MS 21042-04 Locknut. (For Stainless option uses MS21043-04)



Detail "W" (Prefix)

Provides added resistance to loosening from shock and vibration. Uses an MS35338-135 Lockwasher and an NAS620C4 Flatwasher.



PART NO. CODE

