

Calmark offers the Series 226 "Card-Lok" retainer for cold plate-heat exchanger applications. A maximum efficiency heat sinking Board Module Assembly retainer designed specifically for part length of 4.80 (121.9) inches or longer with five or more wedge and body segments. The Series 226 design incorporates a Self-Positioning feature which minimizes wedge and body misalignment and provides easy insertion.

### FEATURES

- Self-positioning design minimizes wedge and body misalignment providing easy insertion
- Positive locking provides maximum reliability
- Maximum thermal transfer
- Maximum resistance to shock and vibration
- Zero insertion and extraction forces
- Special lengths, finishes or other design variations available on request

### BODIES & WEDGES

#### Material:

Aluminum Alloy 6061-T6,  
ASTM-B221

#### Finish:

See Part No. Code

### SCREW

#### Material:

Stainless Steel  
QQ-S-763 or ASTM-A582

#### Finish:

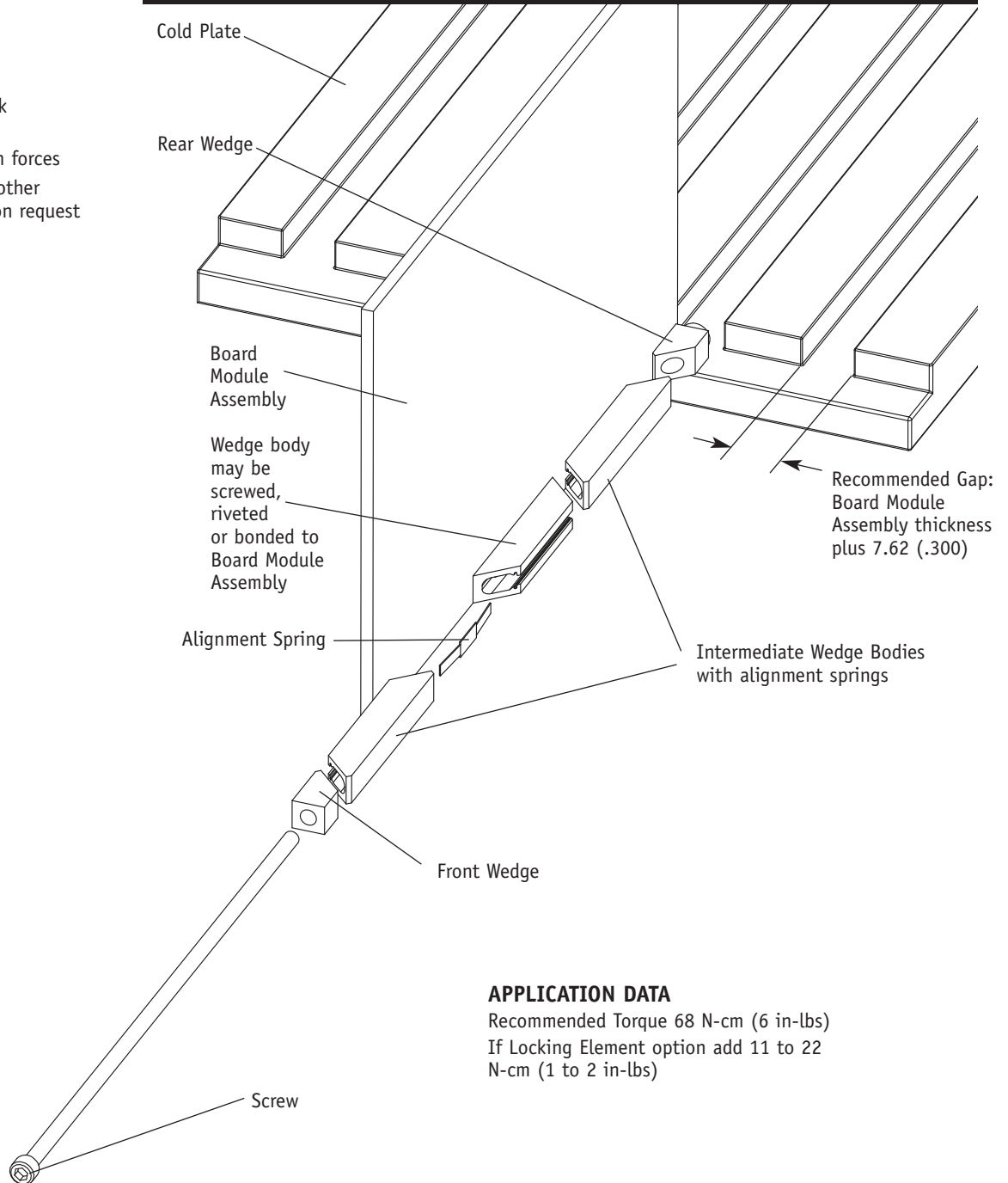
Passivate per MIL-S-5002

### WEIGHT

1.34 g/cm (.120 oz/in)



Series 226 - "Card-Lok" Retainer (cold plate)



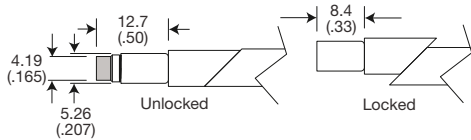
### APPLICATION DATA

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

## OPTION PREFIX

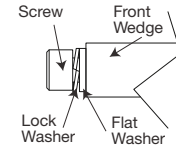
### Detail "V"

Provides visual lock indication.



### Detail "W"

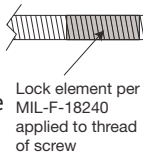
Provides added resistance to loosening from shock and vibration. This option adds 2.5 (.10) to the screw length unless combined with the "R" suffix option, then adds 5.1 (.20) total.



## OPTION SUFFIX

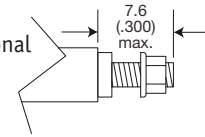
### Detail "L"

Provides prevailing torque for resistance to loosening from shock and vibration.



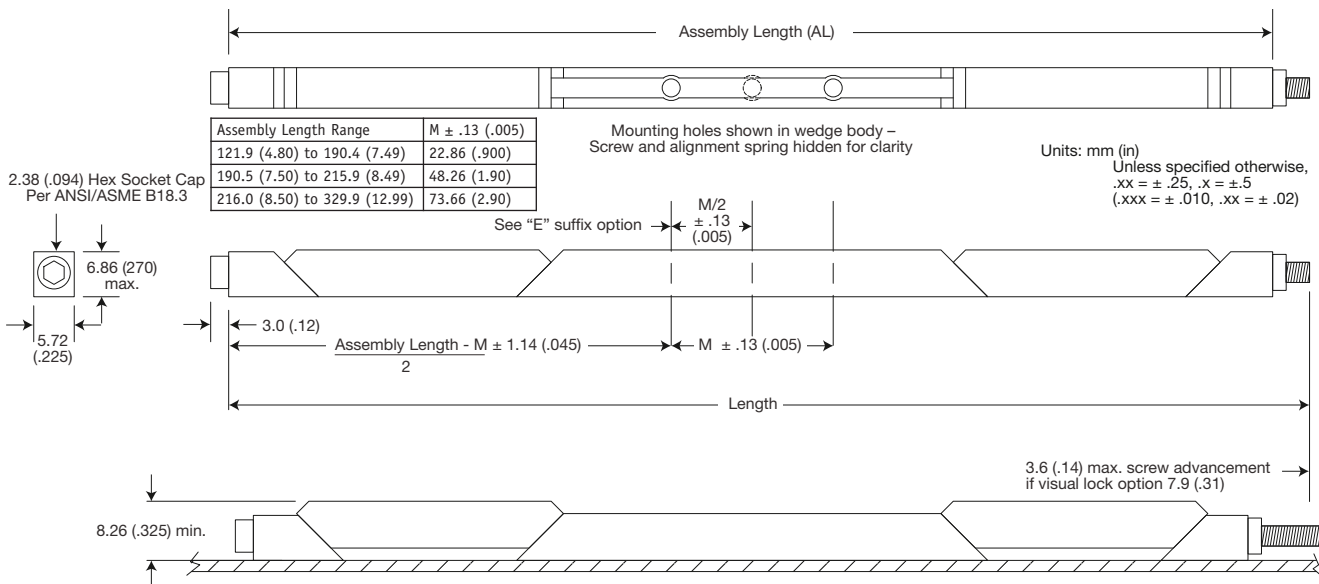
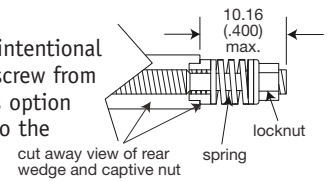
### Detail "R"

Reduces the possibility of unintentional disassembly of the screw from rear wedge. This option adds 2.5 (.10) to the screw length unless combined with the "W" suffix option, then 5.1 (.20) total.



### Detail "K"

Prevents the unintentional disassembly of screw from rear wedge. This option adds 5.1 (.20) to the screw length.



## Part Number Code Series 226 Card-Lok Five Piece

### Prefix options

Metric Screw Head M2.5 Hex Drive      M  
 Standard Screw Head 3/32 Hex Drive [blank]  
 Lock and Flat Washer      W  
 None      [blank]  
 Visual Indicator      V  
 No Visual Indicator      [blank]  
 Black Anodize      A  
 or choose from Finish Table      see table

### Suffix options

Stainless Steel Captive (and Lock Nut if "R" option is also selected)      CR  
 Standard Plated Steel      "-"  
 Assembly length in inches. Standard lengths range from 121.9 (4.80) to 329.9 (12.99). Preferred lengths are 121.9 (4.80), 147.3 (5.80) and 172.72 (6.80)      length.xx  
 Other lengths available upon request  
 Additional Center Mounting Hole      E  
 None      [blank]  
 Mounting Options - holes for rivet mounting      H  
 or choose from Mounting Option Table      see table  
 Lock Element      L  
 None      [blank]  
 Lock Nut      R  
 Captive Screw      K  
 None      [blank]

## Part Number Code Example:

MWA226-4.80HK

Series 226 Card-Lok five piece 121.9 (4.80) long with M2.5 hex drive, lock and flat washer, black anodize finish, holes for rivet mounting and captive screw feature.

## FINISH TABLE

Code Letter	Finish
[blank]	Chemical Film per Mil-C-5541 Class 1A, Gold
"R"	Chemical Film per Mil-DTL-5541 Class 3, Type II, Clear
"A"	Black Anodize per Mil-A-8625 Type II, Class 2
"HA"	Hard Black Anodize per Mil-A-8625 Type III, Class 2
"EN"	Electroless Nickel per Mil-C-26074 Class 4, Grade B, Bright

## MOUNTING METHOD TABLE

Code Letter	Method
[blank]	No mounting holes
"H"	Rivet Mounting Ø1.70 (.067) hole with 3.96 (.156) counterbore x 5.08 (.200) deep and 100° x 3.56 (.140) countersink.
"TO"	0-80 tapped hole
"T2"	2-56 tapped hole
"TM2"	M2 x 0.40 tapped hole
"TM2.5"	M2.5 x 0.45 tapped hole