

Patent no. 7,883,289



Series 223 Torque-Limiting Card Lok

## RECOMMENDED GAP WIDTH

PCB + 7.62 (.300)

## WEIGHT

1.12 g/cm (.10 oz/in)

## MATERIALS AND FINISH

### TORQUE LIMITING MECHANISM

**Material:**

Stainless Steel 17-4 PH

**Finish:**

Dry Film Lube per Mil-L-46010 Type 1

### WEDGES

**Material:**

Aluminum Alloy 6061-T6 per per ASTM-B221 or AMS-QQ-A-200/8

**Finish:**

See finish table on opposite page

### SCREW

.09-in. or 2.5-mm hex. socket head cap screw, depending on mounting configuration

**Material:**

Stainless steel per ASTM A-582

**Finish:**

Passivate per AMS2700

### LOCKNUT

**Material:**

Stainless steel per MS21043-04

**Finish:**

Silver plate per AMS 2410

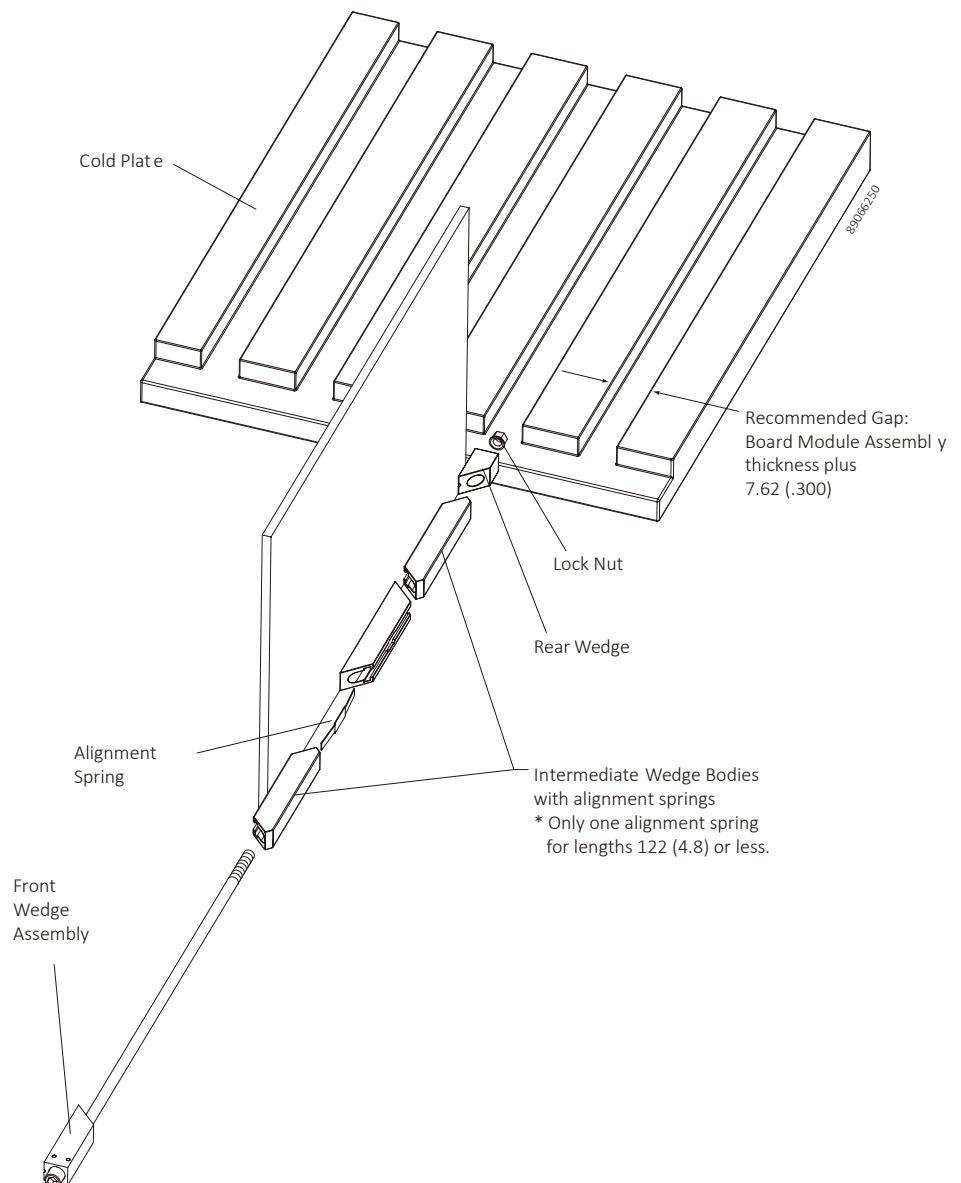
### ALIGNMENT SPRINGS

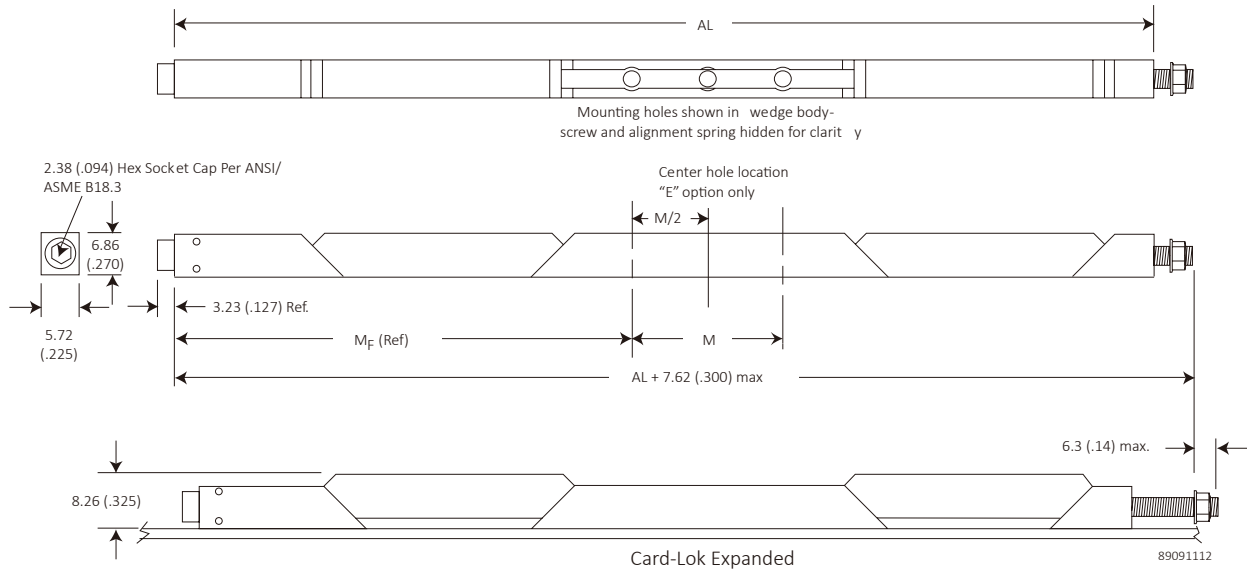
**Material:**

301 stainless steel half hard per AMS 5518

**Finish:**

Passivated per AMS2700





AL range $\pm 1.3$ (.050)	M $\pm .13$ (.005)	M <sub>f</sub> $\pm .76$ (.030)
From 97 (3.8) - 185 (7.3)	22.86 (.90)	$\frac{AL+12.5 (.500)-M}{2}$
From 198 (7.8) - 211 (8.3)	48.26 (1.90)	
From 224 (8.8) - 325 (12.8)	73.66 (2.90)	

Units: mm (in)  
 Unless otherwise specified:  
 .xx  $\pm$  .25, .x  $\pm$  .5 (.xxx  $\pm$  .010, .xx  $\pm$  .02)  
 Note: Each piece has a tolerance of  $\pm .010$

Part Number Code  
 Series 223 TL Card-Lok Five Piece

Z M A 223 - 4.80 E T2

**Prefix options**

Metric Screw Head M2.5 Hex Drive \_\_\_\_\_ M  
 Standard Screw Head 3/32 Hex Drive \_\_\_\_\_ [blank]  
 Black Anodize \_\_\_\_\_ A  
 or choose from Finish Table \_\_\_\_\_ see table

**Suffix options**

Min length = 97 (3.8), Max length = 325 (12.8), in 13 (0.5) increments \_\_\_\_\_ length.xx  
 Additional Center Mounting Hole \_\_\_\_\_ E  
 None \_\_\_\_\_ [blank]

**Mounting options**

2-56 tapped mounting hole or choose from Mounting Method Table \_\_\_\_\_ T2

Part Number Code Example:  
 ZA223 - 4.80T2  
 Series 223 Card-Lok 121.9 (4.8) long assembly length, black anodized with two 2-56 threaded mounting holes

### FINISH TABLE

Code Letter	Finish
[blank]	Chemical Film Finish Gold per Mil-DTL-5541, Type 1 Class 1A
"R"	Chemical Film Finish Clear per Mil-DTL-5541, Class 3 Type II
"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 $\varnothing 1.70$ (.067) hole with 3.96 (.156) counterbore x 5.08 (.200) deep and 100° x 3.56 (.140) countersink
"T0"	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