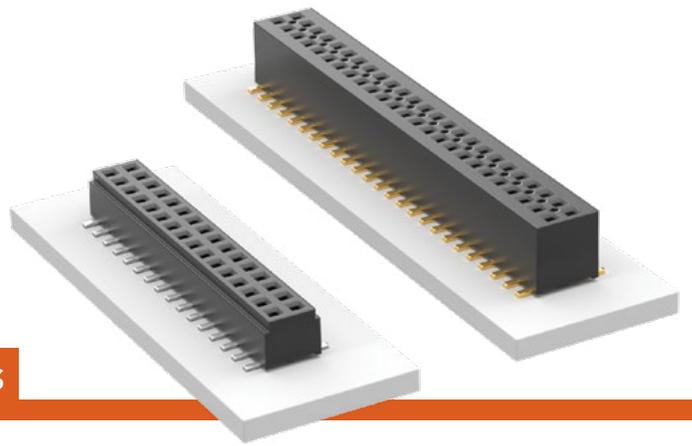


# RUGGED RELIABLE MICRO SOCKETS

(1.00 mm) .0394" PITCH • CLM/MLE SERIES



## CLM

**Mates:**  
FTM, FTMH, MW

## MLE

**Mates:**  
FTM, FTMH, MW

### SPECIFICATIONS

**Insulator Material:** Black LCP  
**Contact Material:**  
 CLM: Phosphor Bronze  
 MLE: BeCu  
**Plating:**  
 CLM: Au or Sn over  
 50  $\mu$ " (1.27  $\mu$ m) Ni  
 MLE: Au over 10  $\mu$ " (0.25  $\mu$ m) Ni  
**Current Rating (CLM/FTM):**  
 2.8 A per pin  
 (2 pins powered)  
**Current Rating (MLE/FTM):**  
 2.9 A per pin (2 pins powered)  
**Operating Temp Range:**  
 -55 °C to +125 °C  
**Max Cycles:**  
 CLM: 100 with 10  $\mu$ " (0.25  $\mu$ m) Au  
**Voltage Rating:**  
 MLE: 310 VAC  
**Insertion Depth:**  
 CLM:  
 Top Entry = (1.40 mm) .055" min.,  
 Bottom Entry =  
 (2.41 mm) .095" min.  
 (Add board thickness for  
 correct post OAL)  
 MLE:  
 (1.63 mm) .064" to  
 (3.18 mm) .125" with  
 (0.38 mm) .015" wipe,  
 pass-through, or (2.44 mm) .096"  
 minimum for bottom entry  
**Normal Force:**  
 CLM: 40 grams (0.39 N) average



02 thru 50

**-F**  
= Gold flash on contact,  
Matte Tin on tail

**-L**  
= 10  $\mu$ " (0.25  $\mu$ m)  
Gold on contact,  
Matte Tin on tail

**-BE**  
= Bottom Entry  
(Required for bottom entry)

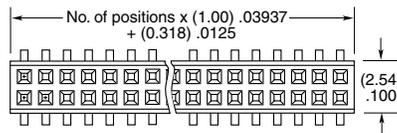
**-K**  
= (3.50 mm) .138" DIA  
Polyimide film  
Pick & Place Pad  
(7 positions minimum)

**-P**  
= Pick & Place Pad  
(7 positions minimum)

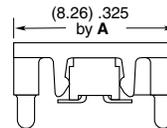
**-PA**  
= Pick & Place Pad with  
integral Alignment Pin

**-TR**  
= Tape & Reel

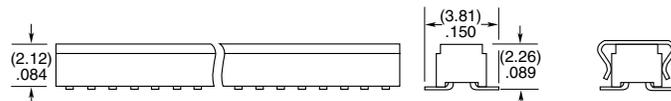
**-FR**  
= Full Reel Tape & Reel  
(must order maximum  
quantity per reel;  
contact Samtec for  
quantity breaks)



PIN/ROW	A
04-15	(3.56) .140
16-50	(7.11) .280



-PA



-P

### PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
 (0.10 mm) .004" max (02-25)  
 (0.15 mm) .006" max (26-50)\*  
 \*(.004" stencil solution  
 may be available; contact  
 ipg@samtec.com)

**ALSO AVAILABLE**  
MOQ Required

Alignment pin  
Other Gold plating options



**Note:**  
Some lengths, styles and  
options are non-standard,  
non-returnable.



02 thru 50

**-G**  
= 10  $\mu$ "  
(0.25  $\mu$ m)  
Gold

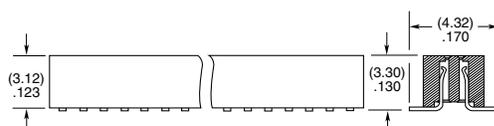
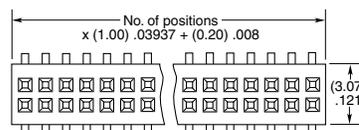
**-A**  
= Alignment Pin  
(3 positions minimum)  
Metal or plastic  
at Samtec discretion

**-K**  
= (4.00 mm) .1575" DIA  
Polyimide film  
Pick & Place Pad  
(5 positions minimum)

**-P**  
= Metal Pick & Place Pad  
(5 positions minimum)

**-TR**  
= Tape & Reel

**-FR**  
= Full Reel Tape & Reel  
(must order maximum  
quantity per reel;  
contact Samtec for  
quantity breaks)



-P

-A