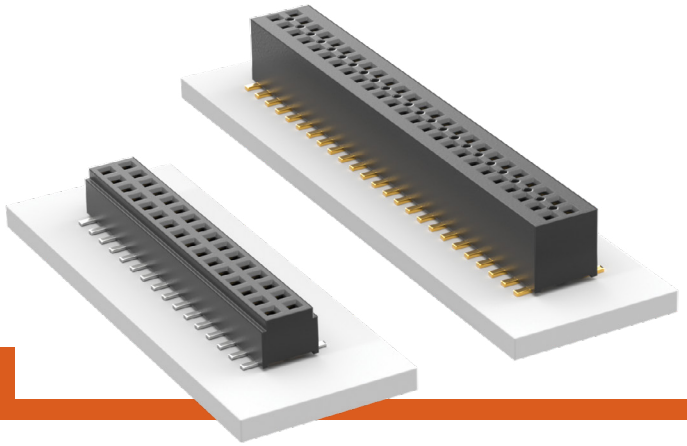
# RUGGED RELIABLE MICRO SOCKETS

## (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 µ" (1.27 µm) Ni
MLE: Au over 10 µ" (0.25 µm) Ni
**Operating Temp Range:**
-55 °C to +125 °C
**Current Rating (CLM/FTMH):**
3.1 A per pin
(2 pins powered)
**Current Rating (MLE/FTMH):**
2.9 A per pin (2 pins powered)
**Max Cycles:**
CLM: 100 with 10 µ" (0.25 µm) Au
**Voltage Rating:**
CLM: 270 VAC/382 VDC
MLE: 310 VAC/438 VDC
**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

### 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
Contact Samtec

Alignment pin

Other Gold plating options

10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

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

## CLM - 1 - NO. PINS PER ROW - 02 - PLATING OPTION - D - OPTIONS

TIGER™ CLAW CONTACT

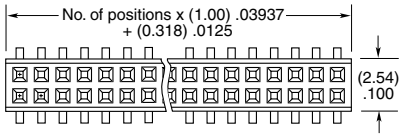
**NO. PINS PER ROW:** 02 thru 50

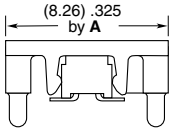
**PLATING OPTION**

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

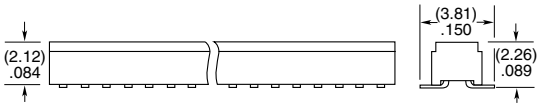
**–L**
= 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail

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




-PA



-P

**OPTIONS**

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

**–K**
= (3.50 mm) .138" DIA Polyimide film Pick & Place Pad (3 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)

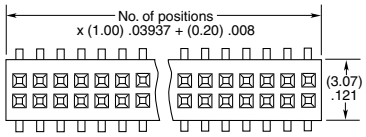
## MLE - 1 - NO. PINS PER ROW - 01 - PLATING OPTION - DV - OPTIONS

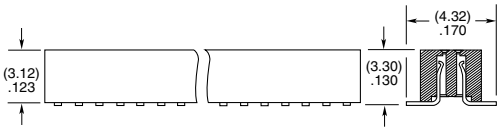
TIGER™ BEAM CONTACT

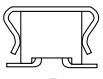
**NO. PINS PER ROW:** 02 thru 50

**PLATING OPTION**

**–G**
= 10 µ" (0.25 µm) Gold



-P

-A

**OPTIONS**

**–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)




Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.