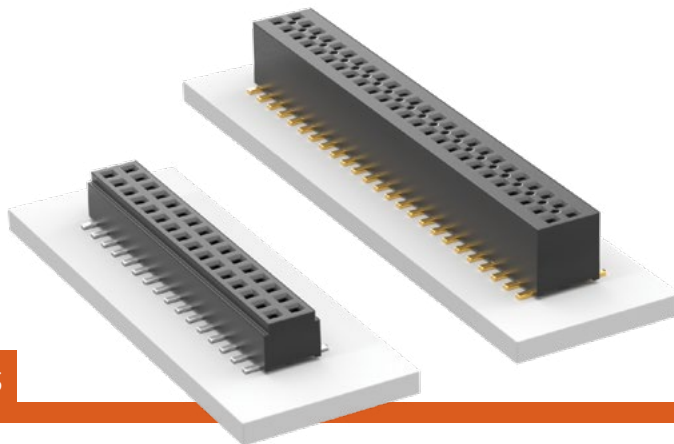


# RUGGED RELIABLE MICRO SOCKETS

(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):

3.1 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:

CLM: 270 VAC

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" wiper,

pass-through, or (2.44 mm) .096"

minimum for bottom entry

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

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

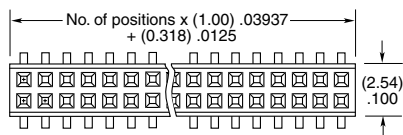
### -TR

= Tape & Reel

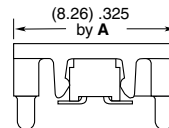
### -FR

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

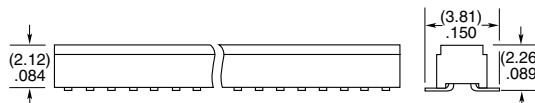
**TIGER  
CLAW  
CONTACT**



| 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.

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

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)

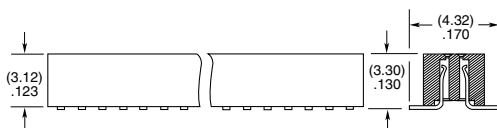
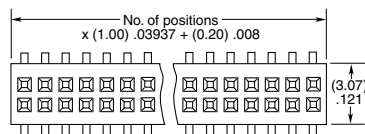
### -TR

= Tape & Reel

### -FR

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

**TIGER  
BEAM  
CONTACT**



-P

-A

[samtec.com?CLM](http://samtec.com?CLM) or [samtec.com?MLE](http://samtec.com?MLE)

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.