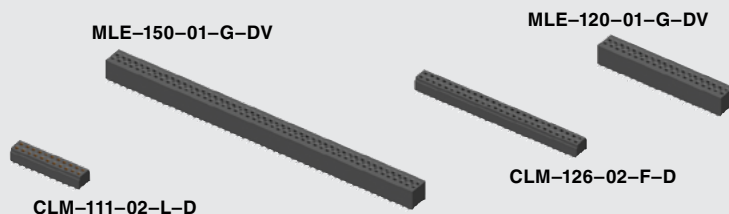




(1.00 mm) .0394"



CLM, MLE SERIES

# RUGGED RELIABLE MICRO SOCKETS

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?CLM](http://www.samtec.com?CLM) or [www.samtec.com?MLE](http://www.samtec.com?MLE)

### 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

### Current Rating (CLM/FTM):

2.8 A per pin

(1 pin powered per row)

### Current Rating (MLE/FTM):

2.9 A per pin

(1 pin powered per row)

### Operating Temp Range:

-55 °C to +125 °C

### Contact Resistance:

CLM: 15 mΩ

### Max Cycles:

CLM: 100 with 10 μ" (0.25 μm) 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" wiper,

pass-through, or

(2.44 mm) .096" minimum

for bottom entry

### Normal Force:

CLM: 40 grams (0.39 N) average

### RoHS Compliant:

Yes

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (02-25)

(0.15 mm) .006" max (26-50)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



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

**CLM**

Mates with:  
FTM, FTMH, MW

**TIGER CLAW CONTACT**

**1 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

**D**

**OPTIONS**

**-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 Packaging

**APPLICATION**

Pass-Thru

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

## ALSO AVAILABLE (MOQ Required)

- Alignment pin
  - Other Gold plating options
- Contact Samtec.

**MLE**

Mates with:  
FTM, FTMH, MW

**TIGER BEAM CONTACT**

**1 NO. PINS PER ROW**

**01 thru 50**

**PLATING OPTION**

**-G**  
= 10 μ" (0.25 μm) Gold

**DV**

**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 Packaging

**APPLICATION**

Pass-Thru