



Surface
SMT
Mount

1mm PITCH SOCKETS CLM, MLE SERIES

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?CLM

Insulator Material:

Black LCP

Contact Material:

Phosphor Bronze

Plating: Au, Sn or SnPb

over 50µ" (1.27µm) Ni

Current Rating:

1.5A @ 80°C ambient

Operating Temp Range:

-55°C to +125°C

Contact Resistance:

15 mΩ max

Insertion Depth:

Top Entry = (1.40mm) .055"

min, Bottom Entry = (2.41mm)

.095" minimum (Add board

thickness for correct post OAL)

Insertion Force:

1.5oz (0.42N) average

Normal Force:

40 grams (0.39N) average

Withdrawal Force:

.75oz (0.21N) average

Max Cycles:

100 with 10µ" (0.25µm) Au

RoHS Compliant:

Yes, with Matte Tin (-FM & -LM)

No, with Tin-Lead (-F & -L)

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

PLATING OPTION

-F or -FM
= Pre-plated Gold flash on contact, Tin-Lead (-F) or Matte Tin (-FM) on tail

-L or -LM
= Pre-plated 10µ" (0.25µm) Gold on contact, Tin-Lead (-L) or Matte Tin (-LM) on tail

D

OPTIONS

-BE
= Bottom Entry (Required for bottom entry)

-K
= (3.50mm) .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

02 thru 50

PIN/ROW	A
04-15	(.356) .140
16-50	(.711) .280

PROCESSING

- Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x
- Lead-Free Solderable:** Yes, with all Gold or Gold with Matte Tin
- SMT Lead Coplanarity:** (0,10mm) .004" max (02-25)
(0,15mm) .006" max (26-50)

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?MLE

Insulator Material:

Black LCP

Contact Material:

BeCu

Operating Temp Range:

-55°C to +125°C

Plating:

Au over 10µ" (0.25µm) Ni

Insertion Depth:

(1.63mm) .064" to (3.18mm)

.125" with (0.38mm) .015"

wipe, pass-through, or

(2.44mm) .096" minimum

for bottom entry

Insertion Force:

2.70oz (0.75N) average

Withdrawal Force:

0.50oz (0.14N) average

RoHS Compliant:

Yes

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

MLE

Mates with:
FTM, FTMH, MW

TIGER BEAM CONTACT

1

NO. PINS PER ROW

01

PLATING OPTION

-G
= 10µ" (0.25µm) Gold

DV

OPTIONS

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

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

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

-TR
= Tape & Reel Packaging

02 thru 50

PROCESSING

Due to technical progress, all designs, specifications and components are subject to change without notice.

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