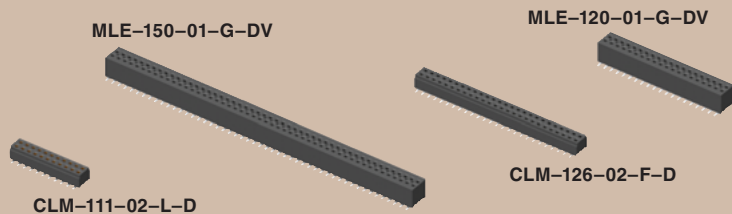


(1,00 mm) .0394"



CLM, MLE SERIES

RUGGED RELIABLE MICRO SOCKETS

SPECIFICATIONS

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

Insulator Material:

Black LCP

Contact Material:

CLM: Phosphor Bronze
MLE: BeCu

Plating:

CLM: Au, Sn or SnPb over 50µ" (1,27 µm) Ni
MLE: Au over 10µ" (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:

MLE: 15 mΩ

Max Cycles:

MLE: 100 with 10µ" (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

Insertion Force:

CLM: 1.5 oz (0,42 N) average

MLE: 2.70 oz (0,75 N) average

Normal Force:

CLM: .75 oz (0,21 N) average

MLE: 0.50 oz (0,14 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



FILE NO. E111594



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

CLM	1	NO. PINS PER ROW	02	PLATING OPTION	D	OPTIONS						
Mates with: FTM, FTMH, MW 02 thru 50 TIGER CLAW CONTACT Diagram showing dimensions for CLM socket: (1,00) .03937, (0,28) .011, (2,54) .100, (5,72) .225, (3,57) .140, (2,41) .095, (3,81) .150, (2,26) .089, (1,36) .054, (8,26) .325 by A, (0,89) .035 DIA, (7,00) .275. APPLICATION Pass-Thru <table border="1"> <thead> <tr> <th>PIN/ROW</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>04-15</td> <td>(3,56) .140</td> </tr> <tr> <td>16-50</td> <td>(7,11) .280</td> </tr> </tbody> </table> PLATING OPTION -F = Gold flash on contact, Matte Tin on tail -L = 10µ" (0,25 µm) Gold on contact, Matte Tin on tail 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 ALSO AVAILABLE (MOQ Required) - Alignment pin - Other Gold plating options Contact Samtec.							PIN/ROW	A	04-15	(3,56) .140	16-50	(7,11) .280
PIN/ROW	A											
04-15	(3,56) .140											
16-50	(7,11) .280											

MLE	1	NO. PINS PER ROW	01	PLATING OPTION	DV	OPTIONS
Mates with: FTM, FTMH, MW 02 thru 50 TIGER BEAM CONTACT Diagram showing dimensions for MLE socket: (1,00) .03937, (0,30) .012, (3,07) .121, (0,64) .025 DIA, (6,35) .250 x (3,18) .125, (4,32) .170, (3,30) .130, (3,50) .138. PLATING OPTION -G = 10µ" (0,25 µm) Gold 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						

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

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