

Surface
SMT
Mount

LOW PROFILE SOCKETS CLP SERIES

SPECIFICATIONS

For complete specifications see www.samtec.com?CLP

Insulator Material:
Black Liquid Crystal Polymer



Contact Material:
Phosphor Bronze

Plating: Sn or Au over 50µ" (1,27µm) Ni

Current Rating:
1.75A @ 80°C ambient
Operating Temp Range:
-55°C to +125°C

Contact Resistance:
10 mΩ max

Insertion Depth:
Top Entry = (1,40mm) .055" minimum, Bottom Entry = (2,41mm) .095" minimum plus board thickness
DH Entry = (2,31mm) .091" to (2,67mm) .105"

Insertion Force:
(Single contact only)
3.8oz (1,05N) average

Normal Force:
60 grams (0,59N) average

Withdrawal Force:
(Single contact only)
2oz (0,56N) average

Max Cycles:
100 with 10µ" (0,25µm) Au

Mates with:
FTSH, FTS, FW



APPLICATION SPECIFIC OPTION

Alignment pins, single row option and RoHS compliant options available. Call Samtec.

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

High reliability
Tiger-Claw contacts

(1,27mm x 1,27mm)
.050" x .050"
micro pitch

Low Profile
(2,21mm) .087"

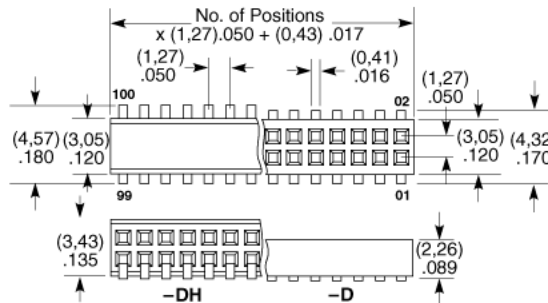
Surface Mount

Suitable for pass-through applications



CLP - 1 NO. PINS PER ROW - 02 - PLATING OPTION - ROW OPTION - OTHER OPTION

02 thru 50



-G
(Best Cost Option)
= 10µ" (0,25µm) Gold (-D only)

-L or -LM
= Pre-plated (0,25µm) 10µ" Gold on contact, Tin (-L) or Matte Tin (-LM) on tail

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

-D
= Double Row

-DH
= Double Horizontal (Requires FTSH or FSH -01 lead style)

-BE
= Bottom Entry (Required for bottom entry applications)

-K
= (4,00mm) .157" DIA Polyimide film Pick & Place Pad (5 positions min.)

-P
= Pick & Place Pad (5 positions min. -D only) (Not always necessary for auto placement. See Flex Processing.)

-PA
= Pick & Place Pad with Alignment Pin (-D only)

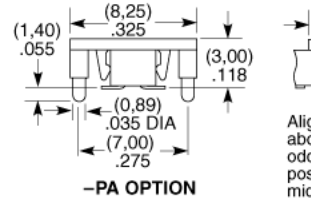
-TR
= Tape & Reel



PIN/ROW	A
04-15	(3,56) .140
16-50	(7,11) .280

TAPE & REEL AVAILABILITY

No tooling charges.
125 piece minimum order.
Order any quantity above minimum.
In-house design, manufacture.
Quick turn-around.
Call Samtec for specifications and ordering information.



Alignment pins are located about centerline of the part. If odd pins/row then on middle position. If even then between middle two positions.

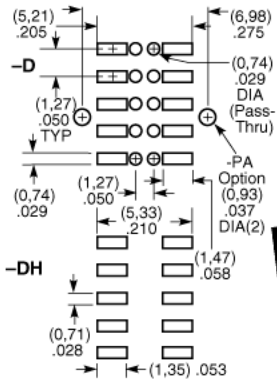
Processing:

Max Processing Temp:
230°C for 60 seconds, or 260°C for 20 seconds 3x with all Au or Matte Sn plating

Lead-Free Solderable:
Yes, with all Au or Matte Sn

SMT Lead Coplanarity:
(0,10mm) .004" max (02-35)
(0,15mm) .006" max (36-50)

Suggested PCB Layouts:
For reference only. Please contact Samtec or go to www.samtec.com?CLP for recommended PCB layout.



Board fixturing may be required to assure proper alignment for pass-through applications.

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

WWW.SAMTEC.COM