

Surface
SMT
Mount

LOW PROFILE SOCKETS CLP SERIES

SPECIFICATIONS

For complete specifications and recommended PCB layouts 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
RoHS Compliant:
Yes

Processing:

Max Processing Temp:
230°C for 60 seconds, or 260°C for 20 seconds 3x

Lead-Free Solderable:
Yes

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

Mates with:
FTSH, FTS, FW



APPLICATION SPECIFIC OPTION

Alignment pins and single row options available. Call Samtec.

High reliability
Tiger-Claw contacts

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

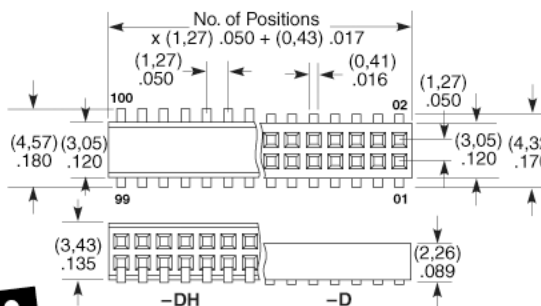
Low Profile
(2,21mm) .087"

Surface Mount

Suitable for pass-through applications



02 thru 50



-G
= 10µ" (0,25µm) Gold (-D only)

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

-F
= Gold flash on contact, Matte Tin 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.)

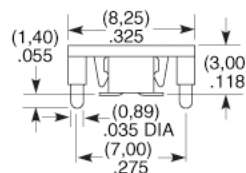
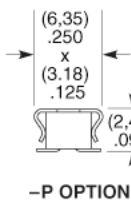
-PA
= Pick & Place Pad with Alignment Pin (-D only)

-TR
= Tape & Reel

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.

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



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

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

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

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