

(2,54mm) .100"

CLH SERIES

CLH-108-F-D-DV-P



CLH-120-F-D-BE



CLH-110-F-D-DV



# SMT LOW PROFILE SOCKET

## SPECIFICATIONS

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

### Insulator Material:

Black Liquid  
Crystal Polymer



### Contact Material:

Phosphor Bronze

### Operating Temp Range:

-65°C to +125°C with Gold

-65°C to +105°C with Tin

### Plating:

Au or Sn over

50µ" (1,27µm) Ni

### Contact Resistance:

10 mΩ max

### Insertion Depth:

(2,67mm) .105" to

(3,43mm) .135"

plug from top, (3,18mm) .125"  
min plus board thickness plug  
from bottom

### Insertion Force:

4.0oz (1,11N) average

### Normal Force:

50 grams (0,48N)

### Withdrawal Force:

1.1oz (0,31N) average

### Max Cycles:

100 with 10µ" (0,25µm) Au

### RoHS Compliant:

Yes

## Processing:

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0,10mm) .004" max

CLH

1

NO. PINS  
PER ROWPLATING  
OPTION

D

ENTRY  
OPTIONOTHER  
OPTION

**Mates with:**  
TSW, MTSW, HW, DW,  
EW, ZW, TLW, TSM,  
MTLW

-F

= Pre-plated Gold flash on contact,  
75µ" (1,91µm) Matte Tin on tail

-L

= Pre-plated 10µ" (0,25µm)  
Gold on contact,  
75µ" (1,91µm) Matte Tin on tail

**Note:** Other Gold plating  
options available.  
Contact Samtec.

-DV  
= Top  
Entry

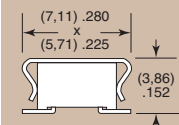
-BE  
= Bottom  
Entry

-K

= (6,50mm) .256"  
DIA Polyimide film  
Pick & Place Pad  
(3 positions min.)

-P

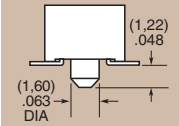
= Pick & Place Pad  
(3 positions  
minimum)



Not always necessary  
for auto placement.  
Call Samtec.

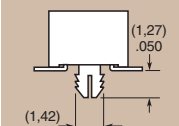
-A

= Alignment Pin  
(4 positions  
minimum)



-LC

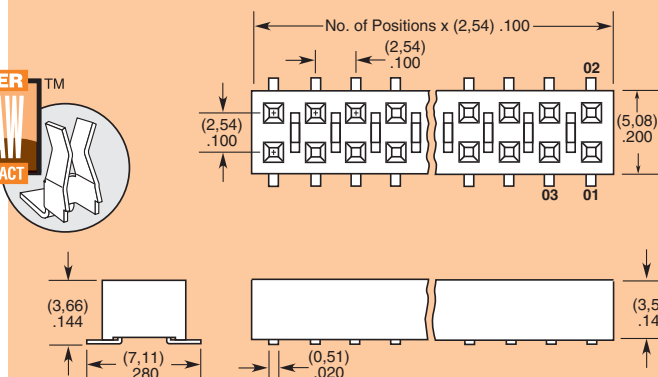
= Locking  
Clip



-TR

= Tape & Reel  
Packaging  
(29 positions  
maximum)

02 thru 50



**TAPE & REEL AVAILABILITY**  
No tooling charges.  
Minimum order is the lesser of  
a full reel quantity or 125 pieces.  
Order any quantity above minimum.  
In-house design, manufacture.  
Quick turn-around.  
Call Samtec for specifications  
and ordering information.

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

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

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