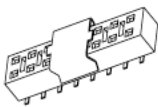


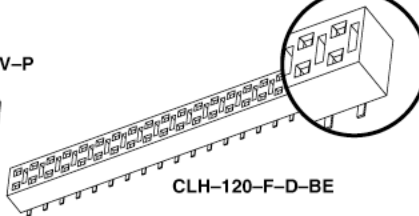
# samtec



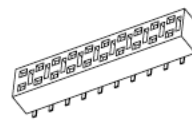
CLH-108-F-D-DV-P



CLH-120-F-D-BE



CLH-110-F-D-DV



Surface  
**SMT**  
Mount

## LOW PROFILE SOCKET CLH SERIES

### Mates with:

TSW, MTSW, HW, DW,  
EW, ZW, TLW, TSM,  
MTLW

### 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:

-55°C to +125°C with Gold

-55°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:

#### Max Processing Temp:

230°C for 60 seconds, or

260°C for 20 seconds 3x

with Matte Sn plating

#### Lead-Free Solderable:

Yes, with Matte Sn plating

#### SMT Lead Coplanarity:

(0,10mm) .004" max

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

### APPLICATION SPECIFIC OPTION

Polarized option available.  
Call Samtec.



### —S or —SM

Pre-plated 30μ" (0,76μm) Gold on contact,  
Tin-Lead (—S) or Matte Tin (—SM) on tail

### —L or —LM

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

### —F or —FM

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

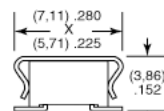
—DV  
= Top  
Entry

—BE  
= Bottom  
Entry

### OTHER OPTION

—K  
(Best Cost Option)  
= (6,50mm) .256"  
DIA Polyimide film  
Pick & Place Pad  
(4 positions min.)

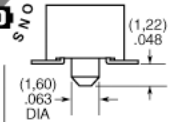
—P  
= Pick & Place Pad  
(4 positions  
minimum)



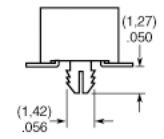
Not always  
necessary for  
auto placement.  
See Flex  
Processing.



—A  
= Alignment Pin  
(5 positions  
minimum)



—LC  
= Locking  
Clip



—TR  
= Tape & Reel  
Packaging

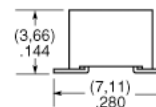
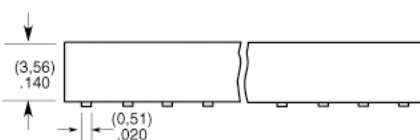
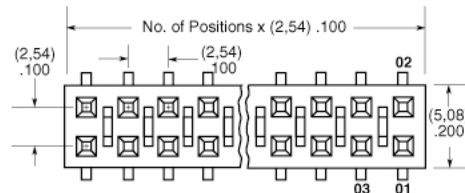
### CURRENT RATING

| AMBIENT TEMPERATURE | TSM mated with CLH |
|---------------------|--------------------|
| 20°C                | 3.2A               |
| 40°C                | 2.8A               |
| 60°C                | 2.3A               |
| 80°C                | 1.6A               |

### 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.

### 02 thru 50



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

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