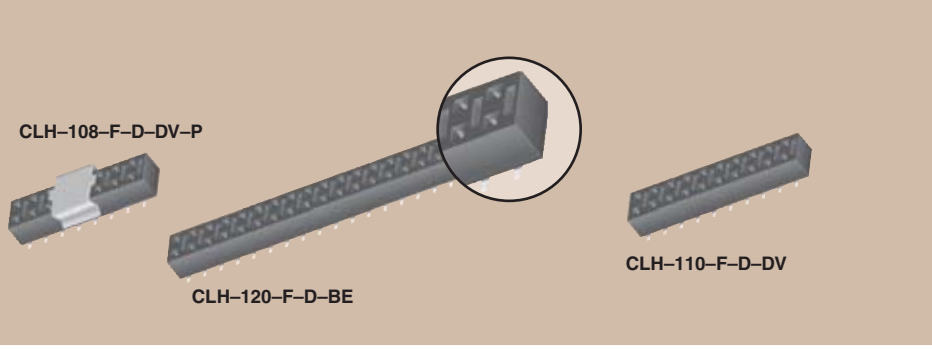
samtec




**(2,54mm) .100"**

**CLH SERIES**

# SMT LOW PROFILE SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see 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

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

**CLH – 1 – NO. PINS PER ROW – PLATING OPTION – D – ENTRY OPTION – OTHER OPTION**

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

**02 thru 50**

**PLATING OPTION**

**–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.

**ENTRY OPTION**

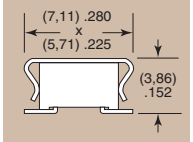
**–DV**
= Top Entry

**–BE**
= Bottom Entry

**OTHER OPTION**

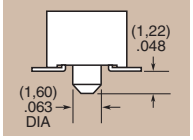
**–K**
= (6,50mm) .256" DIA Polyimide film Pick & Place Pad (3 positions min.)

**–P**
= Pick & Place Pad (3 positions minimum)

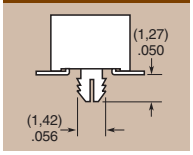



Not always necessary for auto placement. Call Samtec.

**–A**
= Alignment Pin (4 positions minimum)

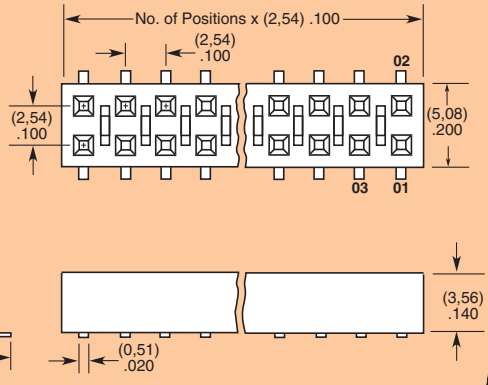



**–LC**
= Locking Clip




**–TR**
= Tape & Reel Packaging (29 positions maximum)

TIGER CLAW CONTACT™




**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.

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



**SAMTEC USA** • Tel: 1-800-SAMTEC-9 or 812-944-6733 **SAMTEC SILICON VALLEY** • Tel: 408-395-5900 **SAMTEC SOUTHERN CALIFORNIA** • Tel: 1-800-726-8329
**SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA** • Tel: (+55 31) 3786 3227 **SAMTEC UNITED KINGDOM** • Tel: 44 01236 739292 **SAMTEC GERMANY** • Tel: +49 (0) 89 / 89460-0
**SAMTEC FRANCE** • Tel: 33 01 60 95 06 60 **SAMTEC ITALY** • Tel: 39 039 6890337 **SAMTEC NORDIC/BALTIC** • Tel: +46-84477280 **SAMTEC BENELUX** • Tel: 44 01236 739292 **SAMTEC ISRAEL** • Tel: 972-3-7526600
**SAMTEC INDIA** • Tel: +91-80-3272 1612 **SAMTEC ASIA PACIFIC** • Tel: 65 6745-5955 **SAMTEC JAPAN** • Tel: 045-475-1385 **SAMTEC CHINA** • Tel: 86-21-61103766 **SAMTEC TAIWAN** • Tel: 886-2-2735-6109
**SAMTEC HONG KONG** • Tel: 852-26904858 **SAMTEC KOREA** • Tel: 82-31-717-5685 **SAMTEC ANZ** • Tel: 613 9512 7747 **SAMTEC SOUTH AFRICA** • Tel: 27 11 452 8112