

-SM, -LM,
-FM only:
RoHS Compliant
Pb
LEAD
www.samtec.com/lead-free



LOW PROFILE SOCKET CLH SERIES

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

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:
-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

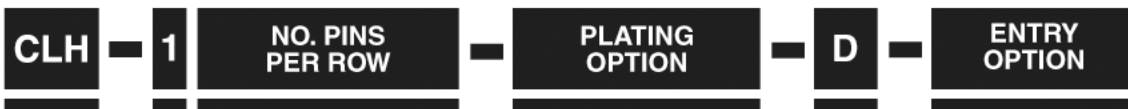
RoHS Compliant:
Yes

Processing:

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

Lead-Free Solderable:
Wave, or reflow with
Matte Sn plating

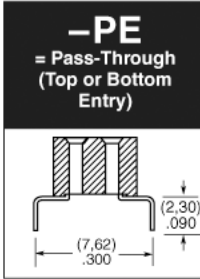
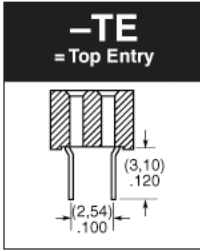
SMT Lead Coplanarity:
(0,10mm) .004" max



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

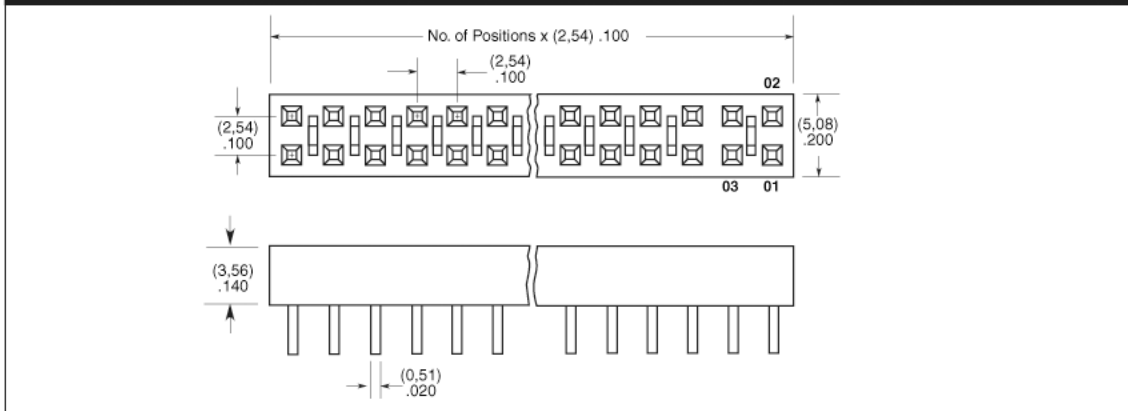
-L or -LM
= Pre-plated 10µ" (0,25µm) Gold on contact,
Tin-Lead (-L) or Matte Tin (-LM) on tail

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



CURRENT RATING	
AMBIENT TEMPERATURE	DW mated with CLH
20°C	2.2A
40°C	2A
60°C	1.8A
80°C	1.2A

02 thru 50



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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