

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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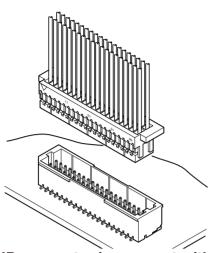




# SHD CONNECTOR



## 1.0mm pitch/Disconnectable Crimp style connectors



The SHD connector is compact with a mounting height of 6.3mm for top entry type and 5.5mm for side entry type, and a width of 5.0mm for top entry type and 5.1mm for side entry type.

- · Compact, low profile design
- Anti-misinsertion feature

Top entry type

- Receptacles with protrusions
- Header designed for vacuum pick and place robotics

### Specifications -

• Current rating: 1.0A AC, DC (AWG #28)

Voltage rating: 50V AC, DC

• Temperature range: -25°C to +85°C

(including temperature rise in applying

electrical current)

• Contact resistance: Initial value/20m  $\Omega$  max.

After environmental testing/40m  $\Omega$  max.

• Insulation resistance: 100M  $\Omega$  min. • Withstanding voltage: 500V AC/minute

Applicable wire: Conductor size/AWG #32 to #28
 Insulation O.D./0.4 to 0.8mm

\* Compliant with RoHS.

- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

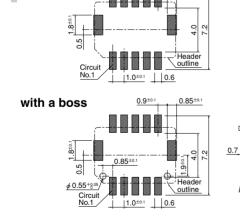
#### Standards -

Recognized E60389

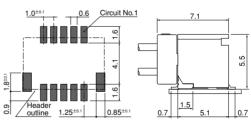
© Certified LR20812

#### PC board layout (viewed from component side) and Assembly layout

1.5



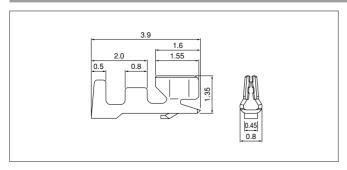
## Side entry type



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

2. The dimensions above should serve as a guideline. Contact JST for details.

#### Contact



Madal Na		Q'ty /		
Model No.	mm <sup>2</sup>	AWG#	Insulation O.D. (mm)	reel
SSH-003GA-P0.2	0.032~0.08	32~28	0.4~0.8	23,000

#### Material and Finish

Phosphor bronze, nickel-undercoated, Mating part; gold-plated

#### RoHS compliance

Note: Contact JST for tin-plated products.

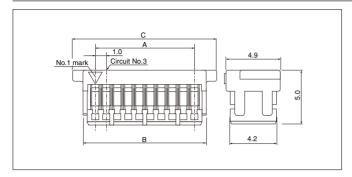
	Crimping	Applicator				
Contact		Crimp applicator Dies		Crimp applicator with dies		
COLL COCCA DO O	AP-K2N	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02		
SSH-003GA-P0.		*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02		

Note: \*Strip-crimp applicator

Contact JST for applicable wires in case that it is not usable due to wire size.

## **SHD CONNECTOR**

#### Housing



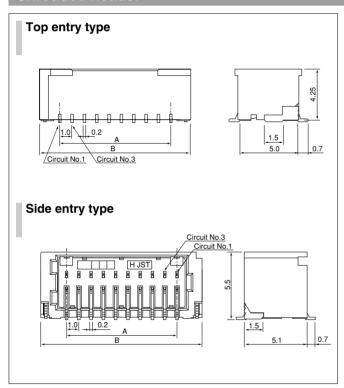
G: :: M   1   1   1   1   1   1   1   1   1		Dimensions (mm)			OII / I
Circuits	Model No.	Α	В	С	Q'ty / box
20	SHDR-20V-S-B	9.0	11.2	13.0	4,000
30	SHDR-30V-S-B	14.0	16.2	18.0	4,000
40	SHDR-40V-S-B	19.0	21.2	23.0	2,000
50	SHDR-50V-S-B	24.0	26.2	28.0	2,000

#### Material

PBT, UL94V-0, natural (white)

RoHS compliance

#### Shrouded header



Circuits-	Model No.	Dimensions (mm)		Q'ty / reel
	Top entry type	Α	В	Q ty / reer
20	BM20B-SRDS-G-TF	9.0	12.3	1,500
30	BM30B-SRDS-G-TF	14.0	17.3	1,500
40	BM40B-SRDS-G-TF	19.0	22.3	1,500
50	BM50B-SRDS-G-TF	24.0	27.3	1.500

Circuito	Model No.	Dimensions (mm)		Q'ty / reel
Circuits	Side entry type	Α	В	Q ty / Teel
20	SM20B-SRDS-G-TF	9.0	13.1	1,250
30	SM30B-SRDS-G-TF	14.0	18.1	1,250
40	SM40B-SRDS-G-TF	19.0	23.1	1,250
50	SM50B-SRDS-G-TF	24.0	28.1	1,250

#### Material and Finish

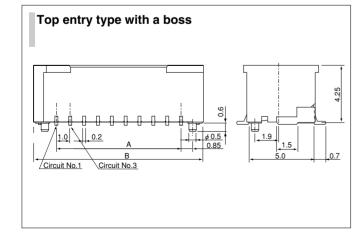
Header contact: Phosphor bronze, nickel-undercoated, gold-plated Wafer: PA, UL94V-0, natural (ivory)

Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.

- 2. Contact JST for the headers with tin-plated pins.
- 3. Contact JST for the top entry type headers with suction cap.



Circuits	Mardal Nia	Dimensions (mm)		Oltre / rool
	Model No.	Α	В	Q'ty / reel
20	BM20B-SRDS-A-G-TF	9.0	12.3	1,250
30	BM30B-SRDS-A-G-TF	14.0	17.3	1,250
40	BM40B-SRDS-A-G-TF	19.0	22.3	1,250
50	BM50B-SRDS-A-G-TF	24.0	27.3	1,250

#### Material and Finish

Header contact: Phosphor bronze, nickel-undercoated, gold-plated Wafer: PA, UL94V-0, natural (ivory)
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.

2. Contact JST for the headers with tin-plated pins.