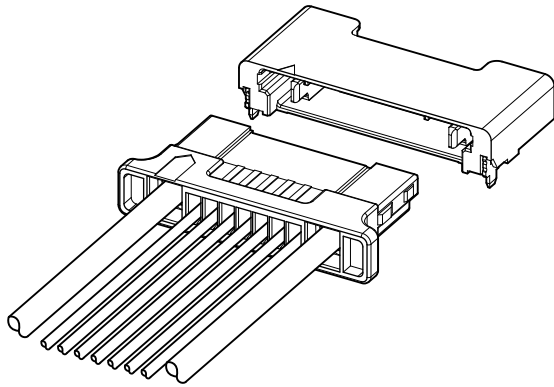


LBT CONNECTOR A Type

Wire-to-Board connectors/Crimp style and Mating style



This connector is for connecting the lithium polymer battery or for connecting DC-IN, and has the sequence structure for connection to the power supply circuit in preference to connection to the signal circuit by dividing the signal circuit and power supply circuit clearly. Moreover, this is the low profile connector (space saving) for applying the high current by adopting the heat radiation structure.

- Connector for power supply (8.0 A)
- Low profile (Space saving)
- Hybrid model of Signal circuit
+ Power supply circuit
- Heat radiation structure
- Sequence structure
- High-strength
- Check of incomplete mating

Standards

Ⓜ : Recognized E60389

Specifications

- Current rating: Power supply circuit; 8.0 A AC/DC (AWG #20)
Signal circuit; 0.5 A AC/DC (AWG #28)
- Voltage rating: 50 VAC/DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Power supply circuit
Initial value/ 15 mΩ max.
After environmental tests/ 30 mΩ max.
Signal circuit
Initial value/ 20 mΩ max.
After environmental tests/ 40 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: There shall be no breakdown or flashover while applying 500 VAC for one minute.
- Applicable wire range: Power supply circuit
Conductor size/ AWG#24 to AWG#20
Insulation O.D./ φ 1.11 to φ 1.44 mm
Signal circuit
Conductor size/ AWG#28
Insulation O.D./ φ 0.6 to φ 0.8 mm

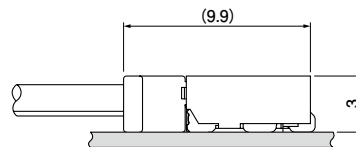
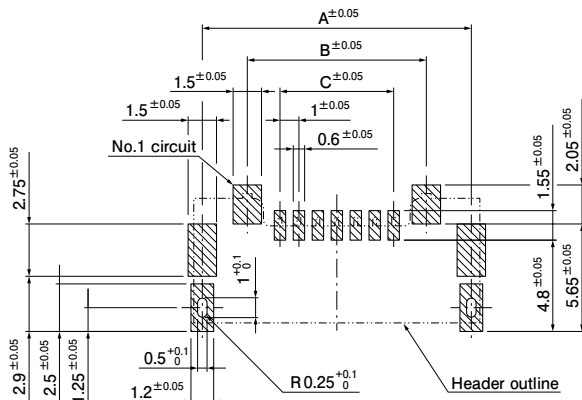
* In using the products, refer to "Handling Precaution for Terminal and Connector" described on our website (Technical documents of Product information page).

* RoHS2 compliance

* Dimensional unit: mm

* Contact JST for details.

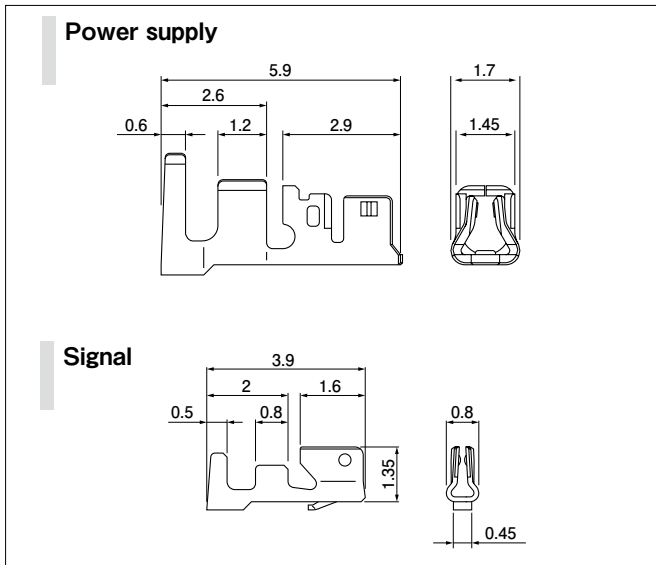
PC board layout and Assembly layout



- Note:
1. The PC board layout is the figure viewed from the connector mounting side.
 2. Tolerance for the PCB pattern pitch shall be ± 0.05 and shall not accumulate.
The above dimensions are reference values. Please contact JST for details.

LBT CONNECTOR A Type

Contact



Model No.		Applicable wire range		Q'ty/ reel
		Conductor size AWG (mm ²)	Insulation O.D. (mm)	
Power supply	SLBTAD-01T-M0.5	#24 to #20 (0.22 to 0.5)	1.11 to 1.44	7,000
Signal	SSH-003T-P0.2-H	#28 (0.08)	0.6 to 0.8	23,000

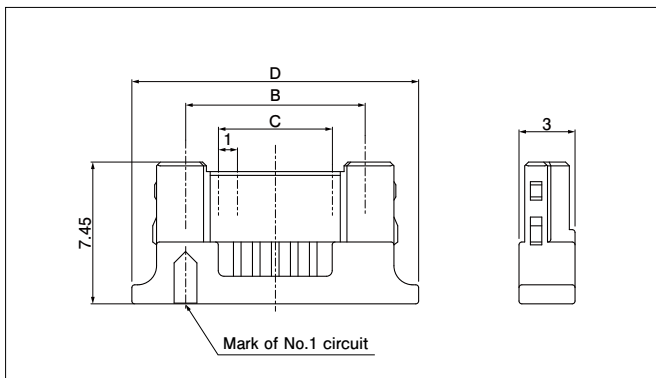
Material and Surface finish, etc

Power supply: Copper alloy, tin-plated
Signal: Phosphor bronze, tin-plated

Contact	Crimping machine	Applicator	Crimp applicator with dies
SLBTAD-01T-M0.5	AP-K2N	MKS-L	APLMK SLBTAD01-05
SSH-003T-P0.2-H		MKS-L-10-3	APLMK SSH/L003-02

Note: Contact JST for fully automatic crimping applicator.

Housing

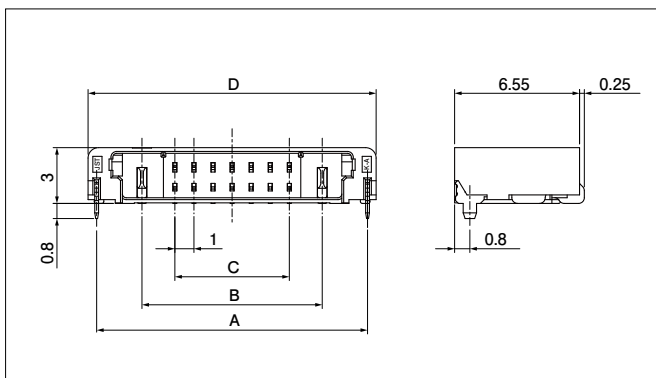


No. of circuits		Model No.	Dimensions (mm)			Q'ty/ bag
Power supply	Signal		B	C	D	
2	1	LBTAR-03V-2K-K(HF)	3.45	—	9.1	3,000
	3	LBTAR-05V-2K-K(HF)	5.45	2.0	11.1	3,000
	5	LBTAR-07V-2K-K(HF)	7.45	4.0	13.1	2,000
	7	LBTAR-09V-2K-K(HF)	9.45	6.0	15.1	2,000

Material and Surface finish, etc.

PBT, UL94V-0

Header



No. of circuits		Model No.	Dimensions (mm)				Q'ty/ reel
Power supply	Signal		A	B	C	D	
2	1	SM03B-LBTAKS-TD-N2T-K(HF)	8.2	3.45	—	9.1	1,500
	3	SM05B-LBTAKS-TD-N2T-K(HF)	10.2	5.45	2.0	11.1	1,500
	5	SM07B-LBTAKS-TD-N2T-K(HF)	12.2	7.45	4.0	13.1	1,500
	7	SM09B-LBTAKS-TD-N2T-K(HF)	14.2	9.45	6.0	15.1	1,500

Material and Surface finish, etc.

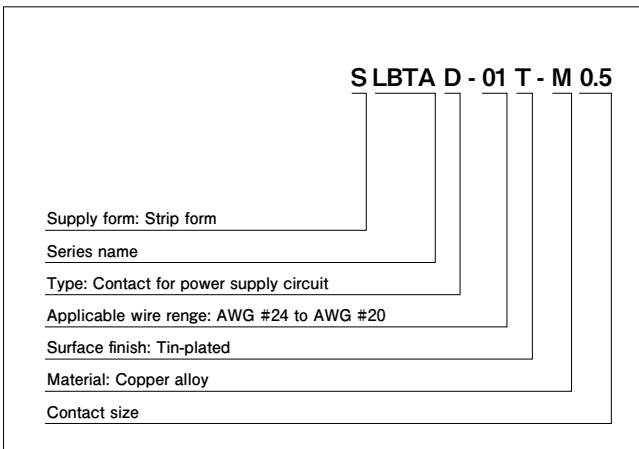
Power supply contact: Copper alloy, copper-undercoated, tin-plated
Signal contact: Copper alloy, copper-undercoated, tin-plated
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated

The products listed above are supplied on embossed-tape.

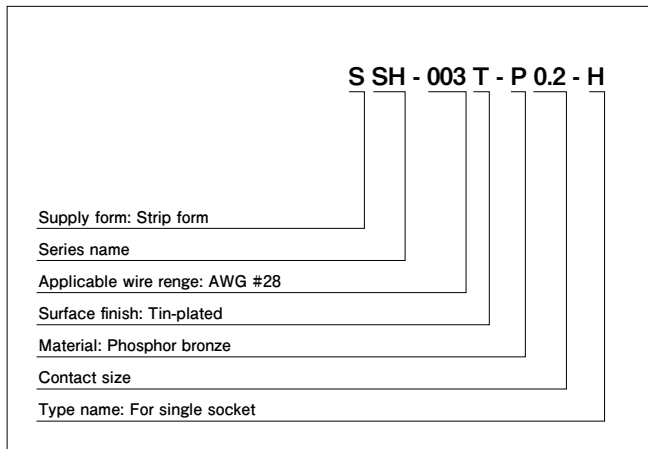
LBT CONNECTOR A Type

Model number allocation

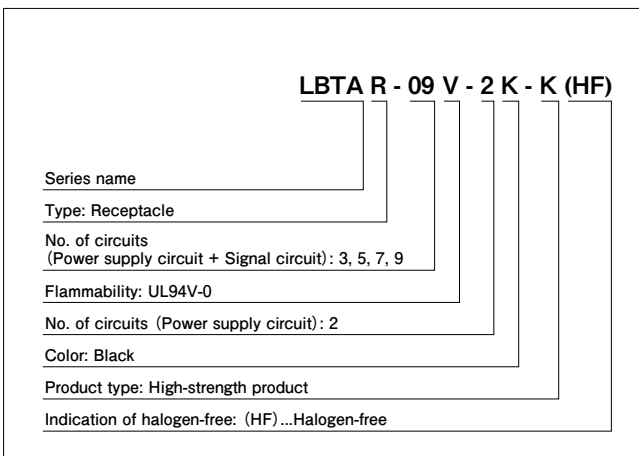
Contact for power supply circuit



Contact for signal circuit



Housing



Header

