# THE DATASHEET OF

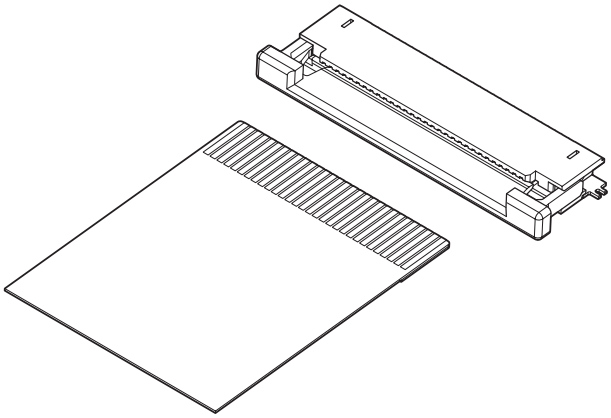
# 12FLZ-RSM2-TB(LF)(SN)

# FLZ CONNECTOR

Emboss Tape

ZIF TYPE

## *0.5mm pitch/Connectors for FFC and FPC*



***This extremely small 0.5 mm pitch connector with a height of only 2.0 mm above the PCB surface allows interconnection in extremely small spaces and is an example of JST's leading edge technology.***

- ***Zero insertion force mechanism***
- ***Heat resisting design suitable for surface mounting***
- ***In-line surface mount tails***
- ***Two types of connections***
- ***Embossed tape for automatic mounting***

## *Specifications*

- Current rating: 0.5 A AC, DC
- Voltage rating: 50 V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 40 mΩ max.
  After environmental tests/ 60 mΩ max.
- Insulation resistance: 800 MΩ min.
- Withstanding voltage: 200 VAC/minute
- Applicable FFC and FPC: Conductor pitch/ 0.5 mm
  Conductor width/ 0.35 mm
  Mating part thickness/ 0.3 ± 0.03 mm

*Note: FFC and FPC to be actually used should be checked for applicability.*

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

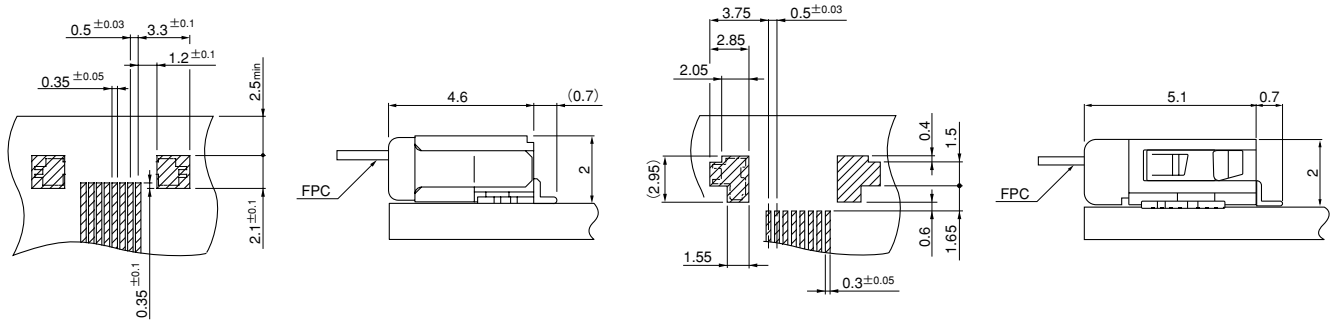
## *Standards*

Recognized E60389

Certified LR20812

## *PC board layout and Assembly layout*

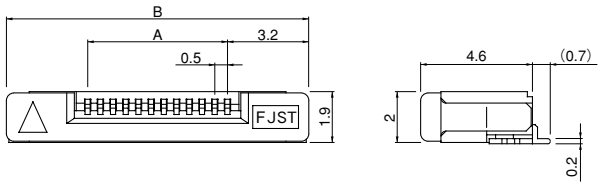
**Inner lock type**



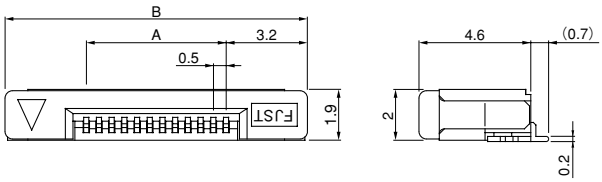

*Note: 1. The above figure is the figure viewed from the connector mounting side.*
*2. Tolerances are non-cumulative: ±0.03 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.*

## Connector

### Normal type

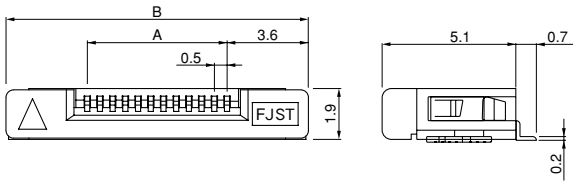



### Reverse type

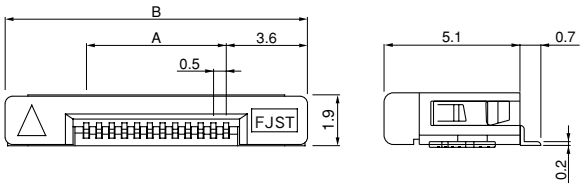



***<Inner lock type>***

### Normal type




### Reverse type




| Circuits | Model No. | | Dimensions (mm) | | Q'ty/ reel |
|---|---|---|---|---|---|
| | Normal type | Reverse type | A | B | |
| 6 | **06FLZ-SM2-TB** | **06FLZ-RSM2-TB** | 2.5 | 8.9 | 2,800 |
| 7 | **07FLZ-SM2-TB** | **07FLZ-RSM2-TB** | 3.0 | 9.4 | 2,800 |
| 8 | **08FLZ-SM2-TB** | **08FLZ-RSM2-TB** | 3.5 | 9.9 | 2,800 |
| 9 | **09FLZ-SM2-TB** | **09FLZ-RSM2-TB** | 4.0 | 10.4 | 2,800 |
| 10 | **10FLZ-SM2-TB** | **10FLZ-RSM2-TB** | 4.5 | 10.9 | 2,800 |
| 11 | **11FLZ-SM2-TB** | **11FLZ-RSM2-TB** | 5.0 | 11.4 | 2,800 |
| 12 | **12FLZ-SM2-TB** | **12FLZ-RSM2-TB** | 5.5 | 11.9 | 2,800 |
| 13 | **13FLZ-SM2-TB** | **13FLZ-RSM2-TB** | 6.0 | 12.4 | 2,800 |
| 14 | **14FLZ-SM2-TB** | **14FLZ-RSM2-TB** | 6.5 | 12.9 | 2,800 |
| 15 | **15FLZ-SM2-TB** | **15FLZ-RSM2-TB** | 7.0 | 13.4 | 2,800 |
| 16 | **16FLZ-SM2-TB** | **16FLZ-RSM2-TB** | 7.5 | 13.9 | 2,800 |
| 17 | **17FLZ-SM2-TB** | **17FLZ-RSM2-TB** | 8.0 | 14.4 | 2,800 |
| 18 | **18FLZ-SM2-TB** | **18FLZ-RSM2-TB** | 8.5 | 14.9 | 2,800 |
| 19 | **19FLZ-SM2-TB** | **19FLZ-RSM2-TB** | 9.0 | 15.4 | 2,800 |
| 20 | **20FLZ-SM2-TB** | **20FLZ-RSM2-TB** | 9.5 | 15.9 | 2,800 |
| 21 | **21FLZ-SM2-TB** | **21FLZ-RSM2-TB** | 10.0 | 16.4 | 2,800 |
| 22 | **22FLZ-SM2-TB** | **22FLZ-RSM2-TB** | 10.5 | 16.9 | 2,800 |
| 23 | **23FLZ-SM2-TB** | **23FLZ-RSM2-TB** | 11.0 | 17.4 | 2,800 |
| 24 | **24FLZ-SM2-TB** | **24FLZ-RSM2-TB** | 11.5 | 17.9 | 2,800 |
| 25 | **25FLZ-SM2-TB** | **25FLZ-RSM2-TB** | 12.0 | 18.4 | 2,800 |
| 26 | **26FLZ-SM2-TB** | **26FLZ-RSM2-TB** | 12.5 | 18.9 | 2,800 |
| 27 | **27FLZ-SM2-TB** | **27FLZ-RSM2-TB** | 13.0 | 19.4 | 2,800 |
| 28 | **28FLZ-SM2-TB** | **28FLZ-RSM2-TB** | 13.5 | 19.9 | 2,800 |
| 30 | **30FLZ-SM2-TB** | **30FLZ-RSM2-TB** | 14.5 | 20.9 | 2,800 |
| 33 | **33FLZ-SM2-TB** | — | 16.0 | 22.4 | 2,800 |

***<Inner lock type>***

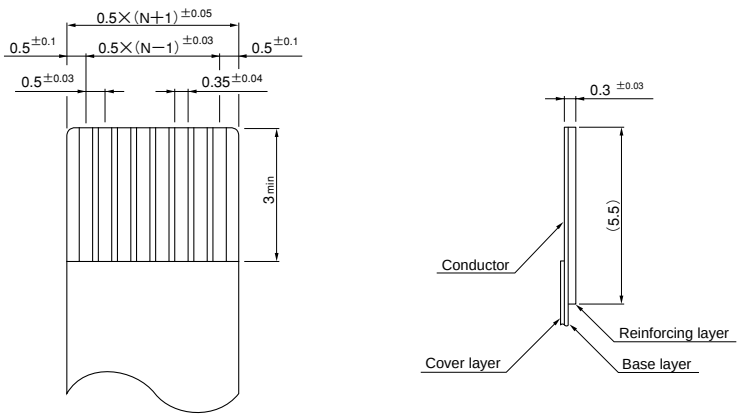
| Circuits | Model No. | | Dimensions (mm) | | Q'ty/ reel |
|---|---|---|---|---|---|
| | Normal type | Reverse type | A | B | |
| 13 | — | **13FLZ-RSM2-R-TB** | 6.0 | 13.1 | 2,800 |
| 30 | **30FLZ-SM2-R-TB** | — | 14.5 | 21.6 | 2,800 |
| 32 | **32FLZ-SM2-R-TB** | **32FLZ-RSM2-R-TB** | 15.5 | 22.6 | 2,800 |
| 34 | **34FLZ-SM2-R-TB** | **34FLZ-RSM2-R-TB** | 16.5 | 23.6 | 2,800 |
| 36 | **36FLZ-SM2-R-TB** | **36FLZ-RSM2-R-TB** | 17.5 | 24.6 | 2,800 |
| 40 | **40FLZ-SM2-R-TB** | **40FLZ-RSM2-R-TB** | 19.5 | 26.6 | 2,800 |
| 42 | **42FLZ-SM2-R-TB** | — | 20.5 | 27.6 | 2,800 |
| 45 | **45FLZ-SM2-R-TB** | — | 22.0 | 29.1 | 2,800 |
| 50 | **50FLZ-SM2-R-TB** | — | 24.5 | 31.6 | 2,800 |

| Material and Finish |
|---|
| Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)<br>Slider housing: PA 6T, UL94V-0 (black)<br>Housing: PA 6T, UL94V-0<br>Nomal type···gray<br>Reverse type···natural<br>Solder tab: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment) |

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

*Note: These products listed above are supplied on embossed tape.*

## Lead section dimensions of FFC and FPC




*Note: N --- Number of circuits*

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View 12FLZ-RSM2-TB(LF)(SN) on WIN SOURCE
- JST Sales America Inc. Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management