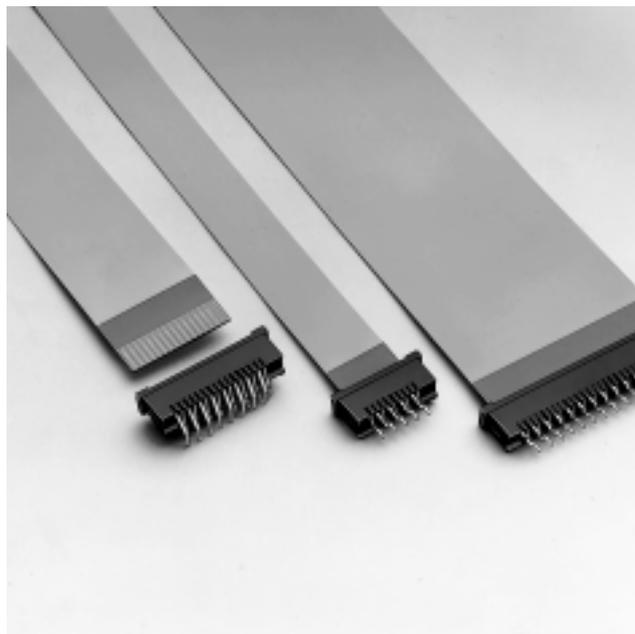


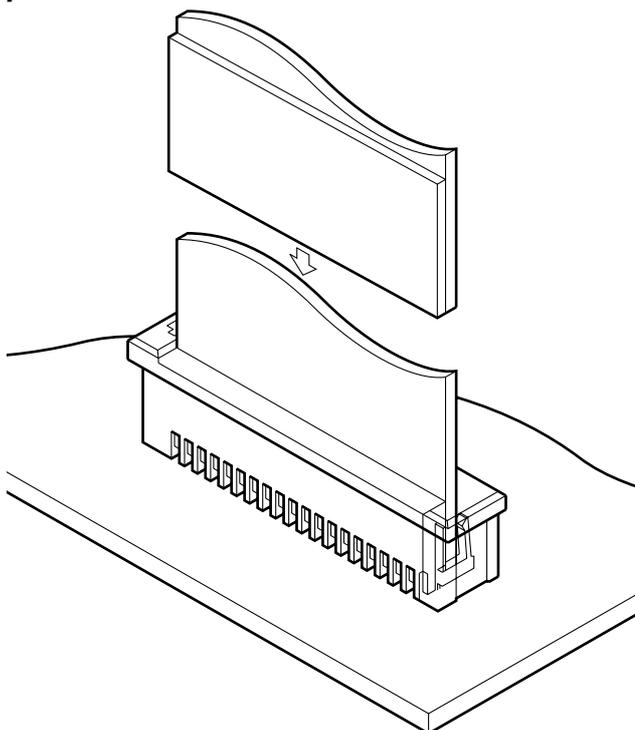
# FMZ CONNECTOR



Connectors for FFC



**The FMZ series, a Zero Insertion Force (ZIF) connector series, was developed to increase wear resistance and extend the connector's mating life. It is a very compact connector with a thickness of only 4.2mm (.165") and a pitch of only 1.0mm (.039") and is thus useful for high density packaging. The contact has a reliable double-leaf construction which provides stable connection.**



## Features

### • Zero insertion force mechanism

A ZIF mechanism increases wear resistance and extends the connector's mating life. By moving the slide into its locking position after an FFC is inserted into the connector with a low insertion force, the FFC leads are securely locked in place.

### • Temporary retention feature

After the FFC is inserted, but before the locking slide is actuated, a retention feature prevents the FFC leads from moving or coming out. This allows one handed operation and higher work efficiency.

### • Compact

This connector is very small with a mounting height of only 6.5mm (.256") and a thickness of 4.2mm (.165") when locked.

### • Double-leaf contact

The slide mechanism and FFC are held and locked between the contact beams. This eliminates stress to the housing, provides high contact pressure and reliable connection.

## Specifications

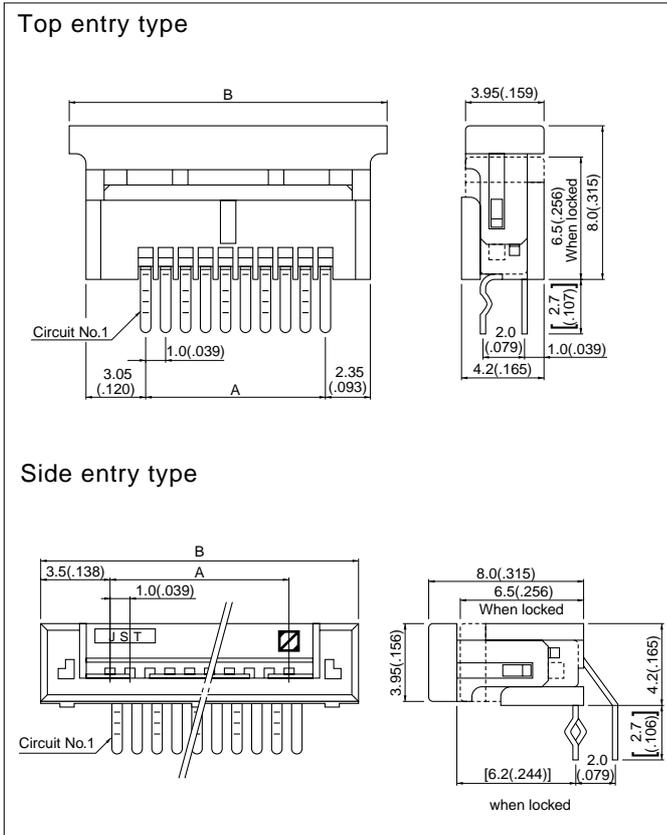
- Current rating: 0.5A AC, DC
  - Voltage rating: 50V AC, DC
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Contact resistance: Initial value/20m Ω max.  
After environmental testing/30m Ω max.
  - Insulation resistance: 800M Ω min.
  - Withstanding voltage: 500V AC/minute
  - Applicable FFC : Lead pitch /1.0mm(.039")  
Lead width /0.7mm(.028")  
Mating part thickness /  
8 to 10, 12 to 16, 20 circuits:  
0.30 ± 0.05mm(.012"± .002")  
22, 26, 28, 30 circuits:  
0.30<sup>+0.05</sup>mm(.012" <sup>+0.002</sup>)
  - Applicable PC board thickness: 0.8 to 1.6mm(.031" to .063")
- <Note>FFC to be actually used should be checked for applicability.  
\* Contact JST for details.

## Standards

Recognized E60389

Certified LR20812

## Connector

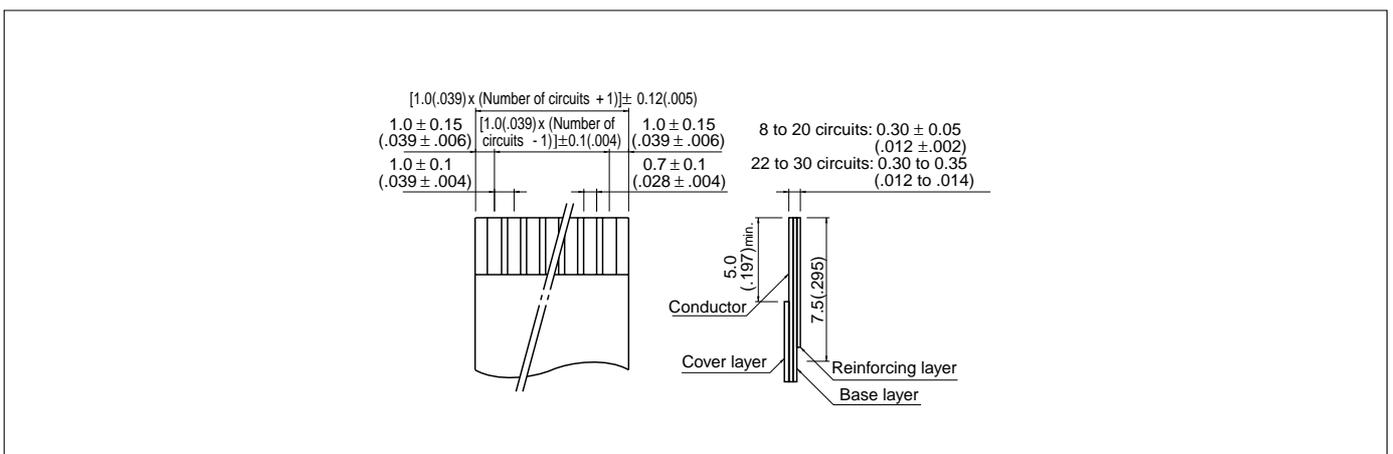


Circuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
6	<b>06FMZ-BT</b>	—	5.0( .197)	12.0( .472)	1,440	—
8	<b>08FMZ-BT</b>	<b>08FMZ-ST</b>	7.0( .276)	14.0( .551)	1,440	800
9	<b>09FMZ-BT</b>	<b>09FMZ-ST</b>	8.0( .315)	15.0( .591)	960	600
10	<b>10FMZ-BT</b>	<b>10FMZ-ST</b>	9.0( .354)	16.0( .630)	960	600
12	<b>12FMZ-BT</b>	<b>12FMZ-ST</b>	11.0( .433)	18.0( .709)	960	600
13	<b>13FMZ-BT</b>	<b>13FMZ-ST</b>	12.0( .472)	19.0( .748)	960	600
14	<b>14FMZ-BT</b>	<b>14FMZ-ST</b>	13.0( .512)	20.0( .787)	960	600
15	<b>15FMZ-BT</b>	<b>15FMZ-ST</b>	14.0( .551)	21.0( .827)	780	600
16	<b>16FMZ-BT</b>	<b>16FMZ-ST</b>	15.0( .591)	22.0( .866)	800	400
20	<b>20FMZ-BT</b>	<b>20FMZ-ST</b>	19.0( .748)	26.0(1.024)	720	400
22	<b>22FMZ-BT</b>	<b>22FMZ-ST</b>	21.0( .827)	28.0(1.102)	720	400
26	<b>26FMZ-BT</b>	<b>26FMZ-ST</b>	25.0( .984)	32.0(1.260)	480	300
28	<b>28FMZ-BT</b>	<b>28FMZ-ST</b>	27.0(1.063)	34.0(1.339)	480	300
30	<b>30FMZ-BT</b>	<b>30FMZ-ST</b>	29.0(1.142)	36.0(1.417)	480	400

### Material and Finish

Contact: Phosphor bronze, tin-plated  
Housing: Glass-filled PBT, UL94V-0

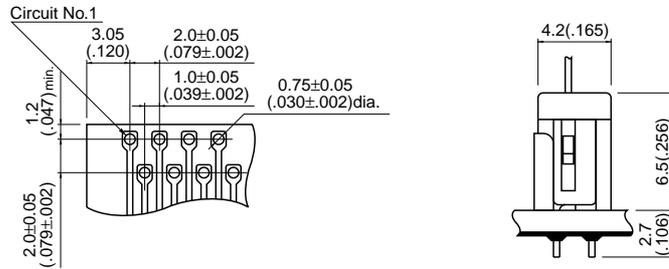
## Lead section dimensions of FFC



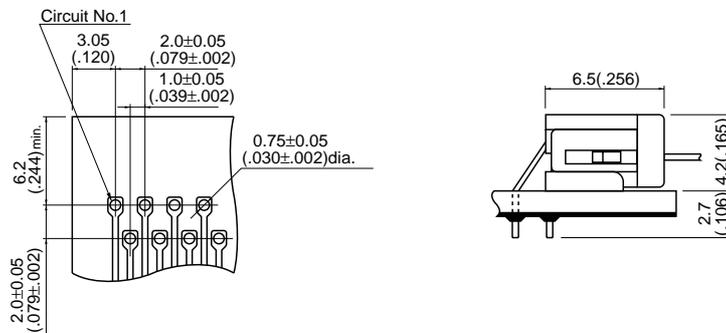
# FMZ CONNECTOR

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

### Top entry type



### Side entry type



Note:

1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}(\pm .002")$  for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.