

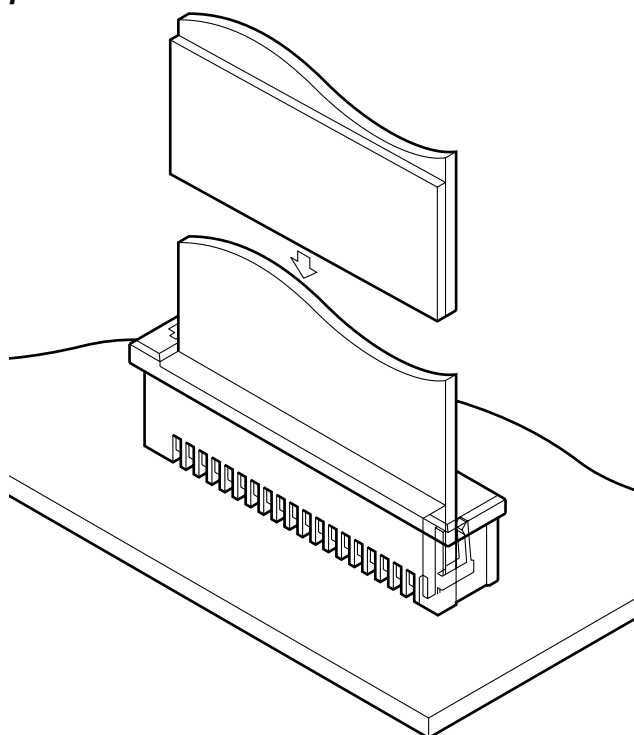
FMZ CONNECTOR



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

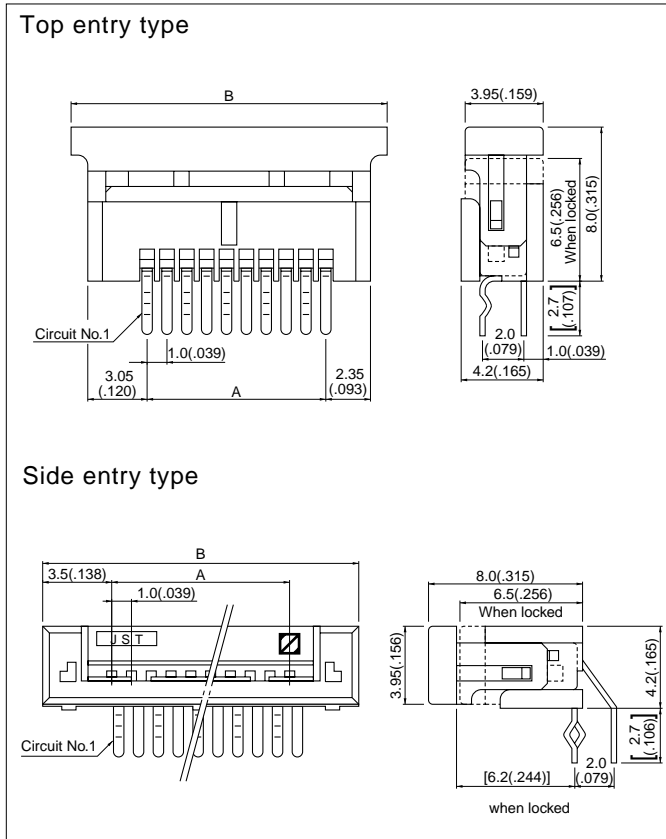
- Current rating: 0.5A AC, DC
 - Voltage rating: 50V AC, DC
 - Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
 - Contact resistance: Initial value/20m Ω max.
After environmental testing/30m Ω max.
 - Insulation resistance: 800M Ω min.
 - Withstanding voltage: 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^{+0.05}mm(.012" ^{+0.002})
 - 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

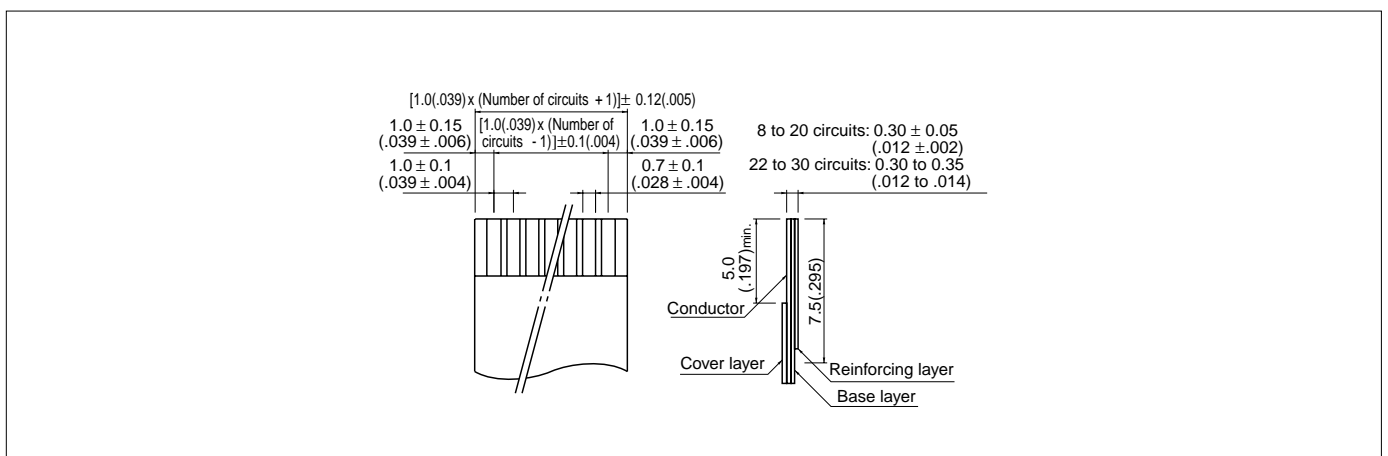


Circuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
6	06FMZ-BT	—	5.0(.197)	12.0(.472)	1,440	—
8	08FMZ-BT	08FMZ-ST	7.0(.276)	14.0(.551)	1,440	800
9	09FMZ-BT	09FMZ-ST	8.0(.315)	15.0(.591)	960	600
10	10FMZ-BT	10FMZ-ST	9.0(.354)	16.0(.630)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

Material and Finish

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

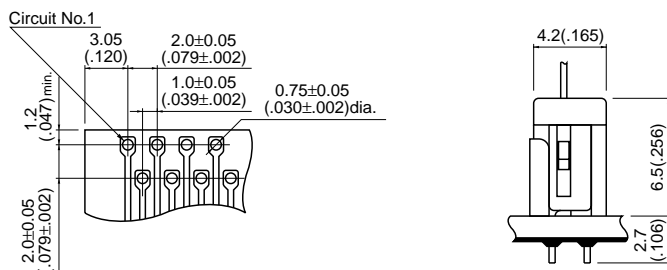
Lead section dimensions of FFC



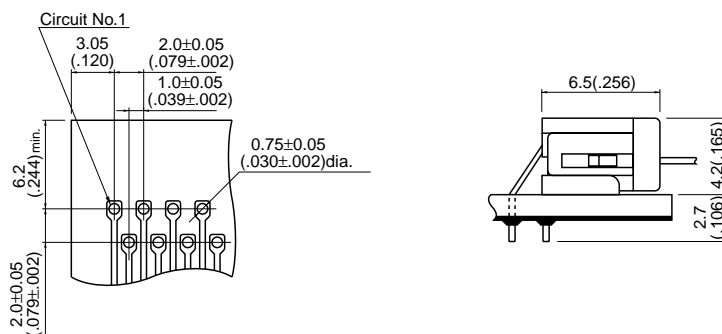
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PC board layout (viewed from soldering side) and Assembly layout

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.