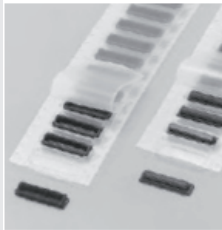


Connector Systems Board to Board



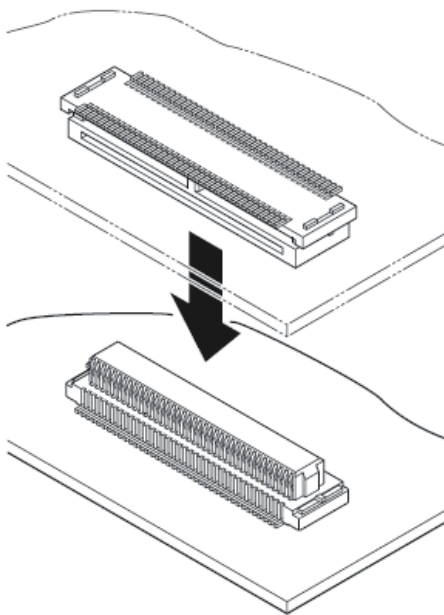
**WERNER
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JAS CONNECTOR

0.4mm pitch/Board-to-board connectors



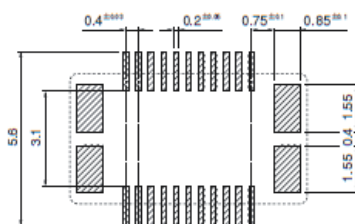
- The plug housing is constructed of two separate parts. This allows the connector to be put under greater torsion strain than similar connectors without any damage being done to the solder joints.
- Both plug and receptacle have the double I type solder tabs, which reduces the stress by the distorted mating/unmating applied to the solder tails.

Specifications

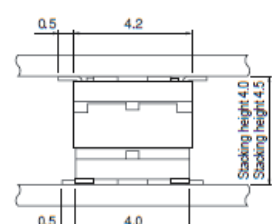
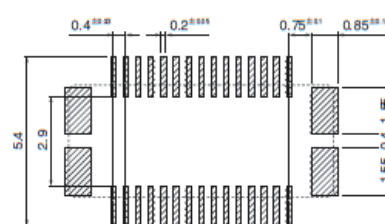
- Current rating: 0.3A AC,DC
- Voltage rating: 30V AC,DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

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

Plug

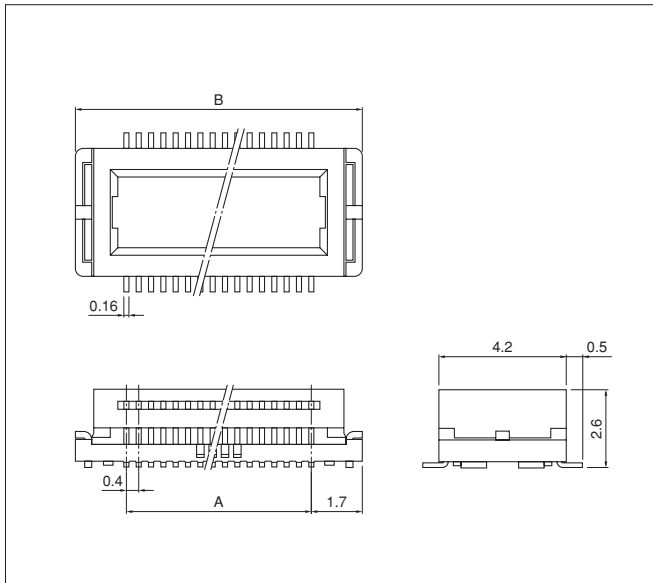


Receptacle



Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Plug



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
80	80P-JASKS-GE-TF	15.6	19.0	2,500
100	100P-JASKS-GE-TF	19.6	23.0	2,500
120	120P-JASKS-GE-TF2	23.6	27.0	1,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated

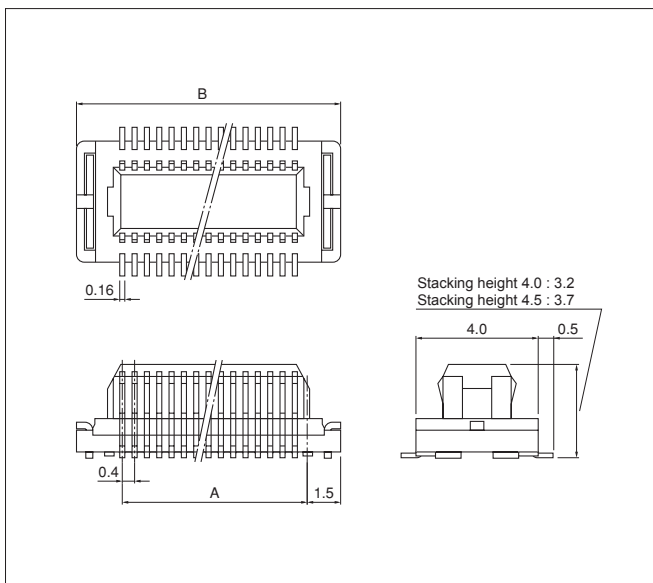
Housing: PPS, UL94V-0

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

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

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

Receptacle



Circuits	Model No.		Dimensions (mm)		Q'ty / reel
	Stacking height		A	B	
	4.0mm	4.5mm			
80	80R-JASKS-GWAN-TF	—	15.6	18.6	2,500
100	100R-JASKS-GWAN-TF	100R4.5-JASKS-GWAN-TF	19.6	22.6	2,500
120	—	120R4.5-JASKS-GWAN-TF2	23.6	26.6	1,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)

Housing: LCP, UL94V-0

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

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

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

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

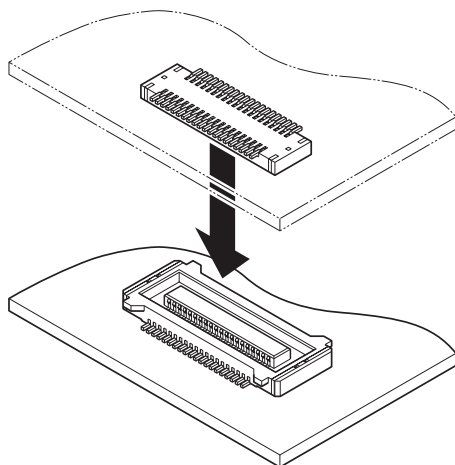
Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de

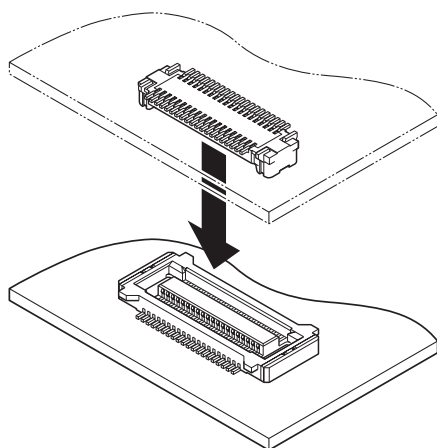


JAV CONNECTOR

0.4mm pitch/Board-to-board connectors



With mating guide



0.4mm pitch, SMT, low profile connector with parallel connection.

- Fine pitch and extremely low profile
- Contact lock construction
- Flat surface
- Concentration contact structure with wiping action
- Mating connector inside box shaped plug and receptacle
- Solder going-up prevention

JAV connector with mating guide

- Mating guide structure

Specifications

- Current rating: 0.3A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

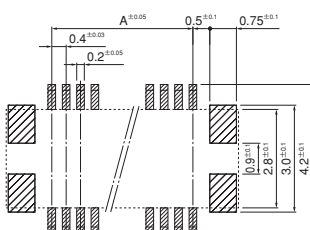
Standards

Recognized E60389

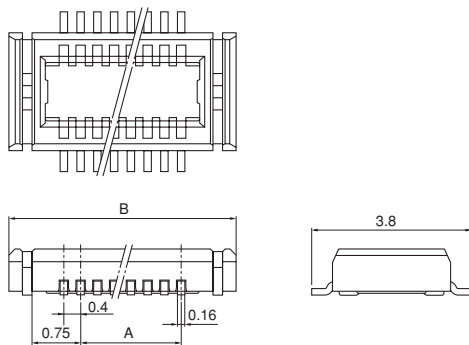
Certified LR20812

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

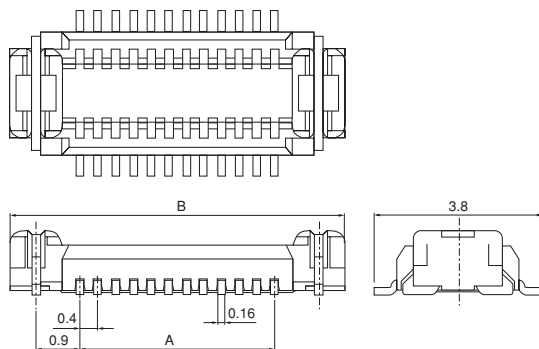
Plug



Plug



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
*20	20PA-JAVK-GSAN-TF	3.6	6.2	3,500
22	22PA-JAVK-GSAN-TF	4.0	6.6	3,500
26	26PA-JAVK-GSAN-TF	4.8	7.4	3,500
30	30PA-JAVK-GSAN-TF	5.6	8.2	3,500
40	40PA-JAVK-GSAN-TF	7.6	10.2	3,500
*70	70PA-JAVK-GSAN-TF	13.6	16.2	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
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. *Marked products are not CSA approved.

With mating guide

Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
24	24PA-JAVK-GSAN-1-TF	4.4	7.6	3,000

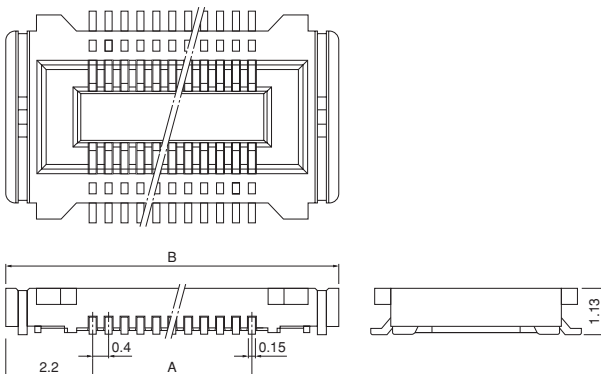
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

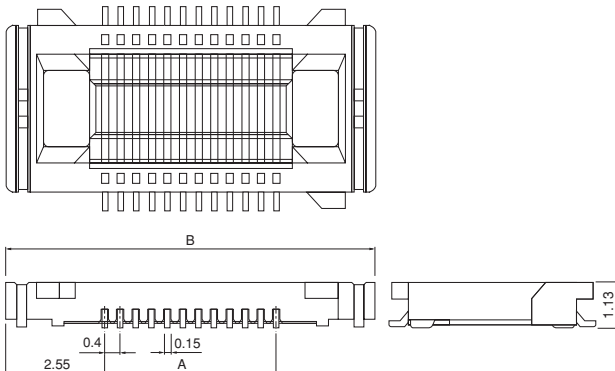
RoHS compliance This product displays (LF)(SN) on a label.

Note: The product listed above is supplied on embossed-tape.

Receptacle



With mating guide



Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
*20	20R-JAVK-GSAN-TF	3.6	8.0	3,500
22	22R-JAVK-GSAN-TF	4.0	8.4	3,500
26	26R-JAVK-GSAN-TF	4.8	9.2	3,500
30	30R-JAVK-GSAN-TF	5.6	10.0	3,500
40	40R-JAVK-GSAN-TF	7.6	12.0	3,500
*70	70R-JAVK-GSAN-TF	13.6	18.0	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
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. *Marked products are not CSA approved.

With mating guide

Circuits	Model No.	Dimensions (mm)		Q'ty/ reel
		A	B	
24	24R-JAVK-GSAN-1-TF	4.4	9.5	3,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)
Housing: LCP, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

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

Note: The product listed above is supplied on embossed-tape.

Werner Wirth GmbH

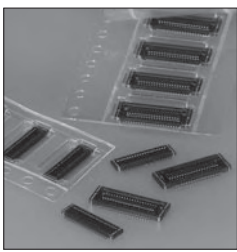
Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de

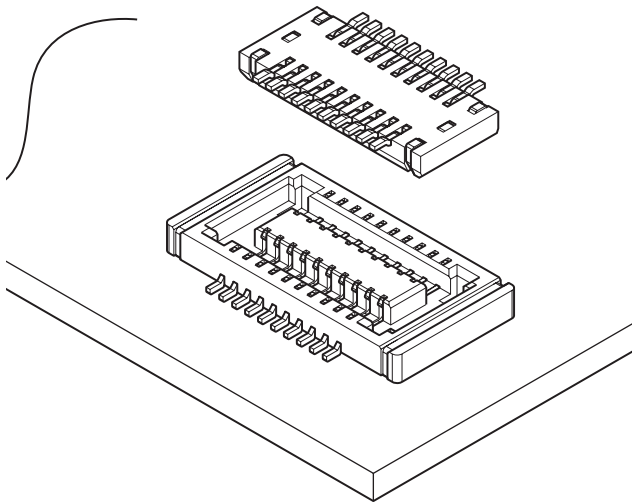


PROJECT | CONNECT | PROTECT



JAN CONNECTOR

0.4mm pitch/Board-to-board connectors



This JAN connector is a board-to-board connector with stacking height 1.0mm and 0.4mm pitch, which is the lowest-profile connector in the [electro mechanical component] industry.

In consideration of operability at user side, although it is 1.0mm low profile, when mating receptacle with plug, the connector structure, where the large amount of guiding connector can be taken, is adopted, and differentiates JAN connector with added value.

- Locking mechanism of contact
- Wiping contact structure
- Reinforcement tabs

Specifications

- Current rating: 0.2A AC, DC
- Voltage rating: 30V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/70m Ω max.
After environmental testing/140m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

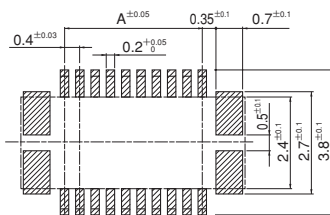
Standards

Ⓜ Recognized E60389

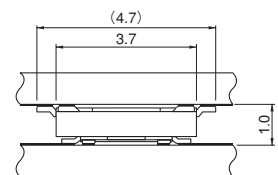
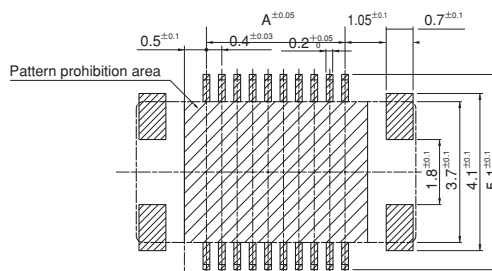
Ⓢ Certified LR20812

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

Plug



Receptacle



Note: 1. Tolerances are non-cumulative: ± 0.03 mm for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

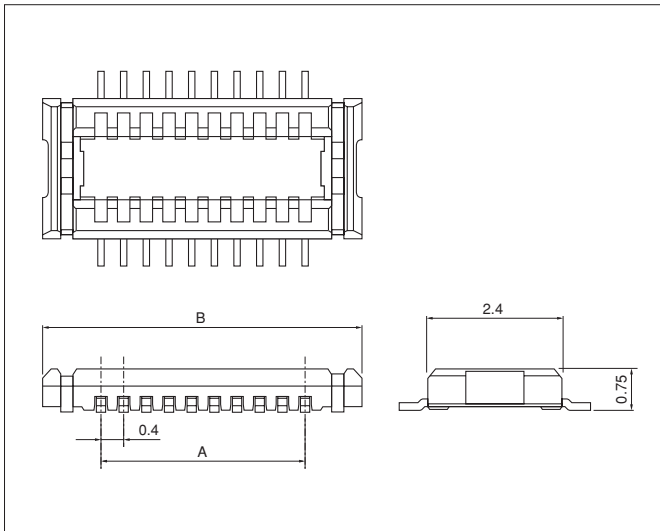
info@wernerwirth.de
www.wernerwirth.de



**WERNER
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PROJECT | CONNECT | PROTECT

Plug



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	20P-JANK-GSAN-2-TF	3.6	5.6	4,000
24	24P-JANK-GSAN-2-TF	4.4	6.4	4,000
34	34P-JANK-GSAN-2-TF	6.4	8.4	4,000
40	40P-JANK-GSAN-2-TF	7.6	9.6	4,000
60	60P-JANK-GSAN-2-TF	11.6	13.6	4,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)

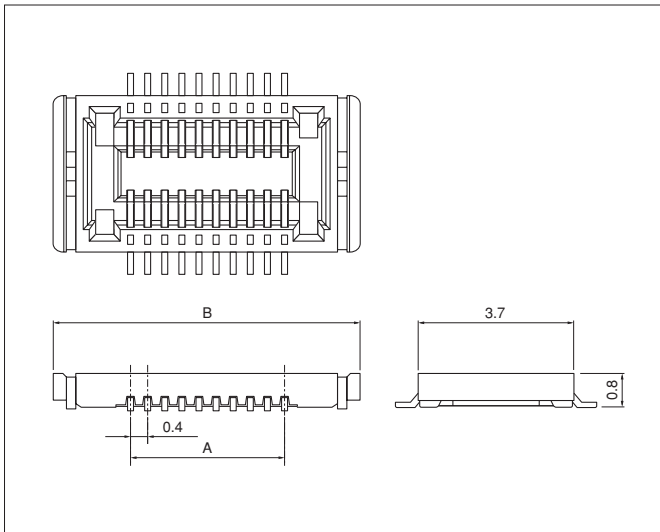
Housing: LCP, UL94V-0

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

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

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

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / reel
		A	B	
20	20R-JANK-GSAN-TF	3.6	7.2	4,000
24	24R-JANK-GSAN-TF	4.4	8.0	4,000
34	34R-JANK-GSAN-TF	6.4	10.0	4,000
40	40R-JANK-GSAN-TF	7.6	11.2	4,000
60	60R-JANK-GSAN-TF	11.6	15.2	4,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated (nickel-stripe)

Housing: LCP, UL94V-0

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

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

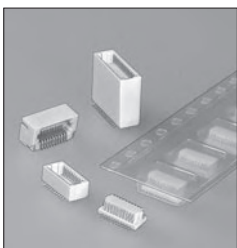
Note: The products listed above are supplied on embossed-tape.

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
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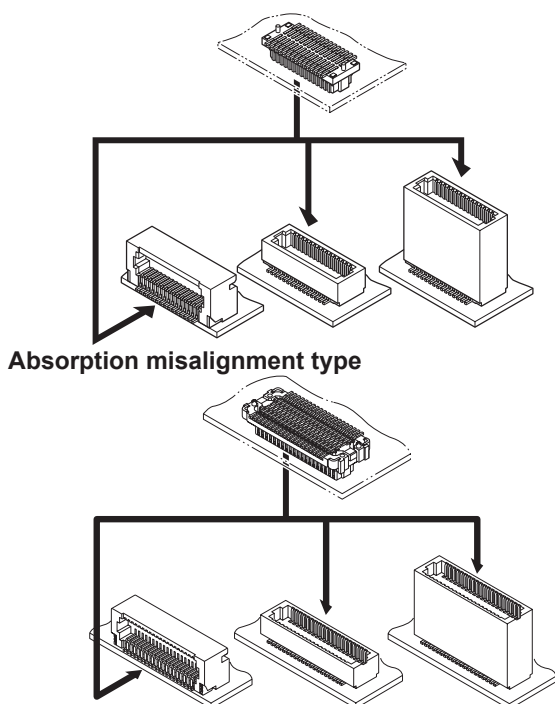
info@wernerwirth.de
www.wernerwirth.de



JMC CONNECTOR

0.5mm pitch/Board-to-board connectors

Emboss Tape



This JMC connector is 0.5mm pitch SMT type board to board connector with selection of boss existence. Comparing with conventional JMC connector, more small and space saving are realized.

- **Secure mating**
- **Distortion preventive construction**
- **Versatile number of circuit and height**
- **Absorbing misalignment when mating connector**

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/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

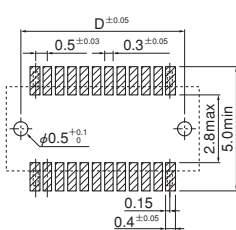
Standards

Recognized E60389

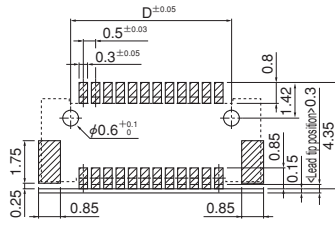
Certified LR20812

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

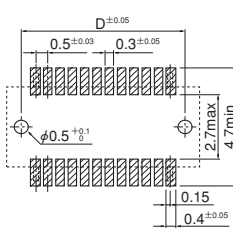
Plug: Top entry type



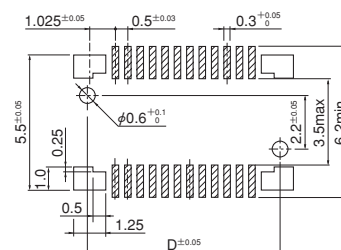
Plug: Side entry type



Receptacle



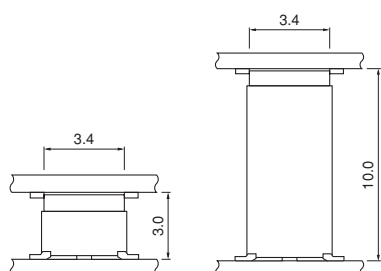
Absorption misalignment type



Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

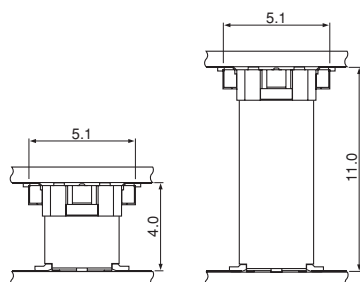
Top entry type

Stacking height: 3.0 to 10.0mm



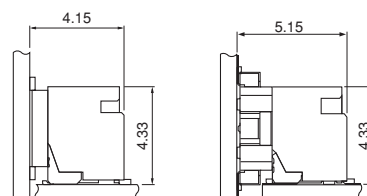
Absorption misalignment type

Stacking height: 4.0 to 11.0mm

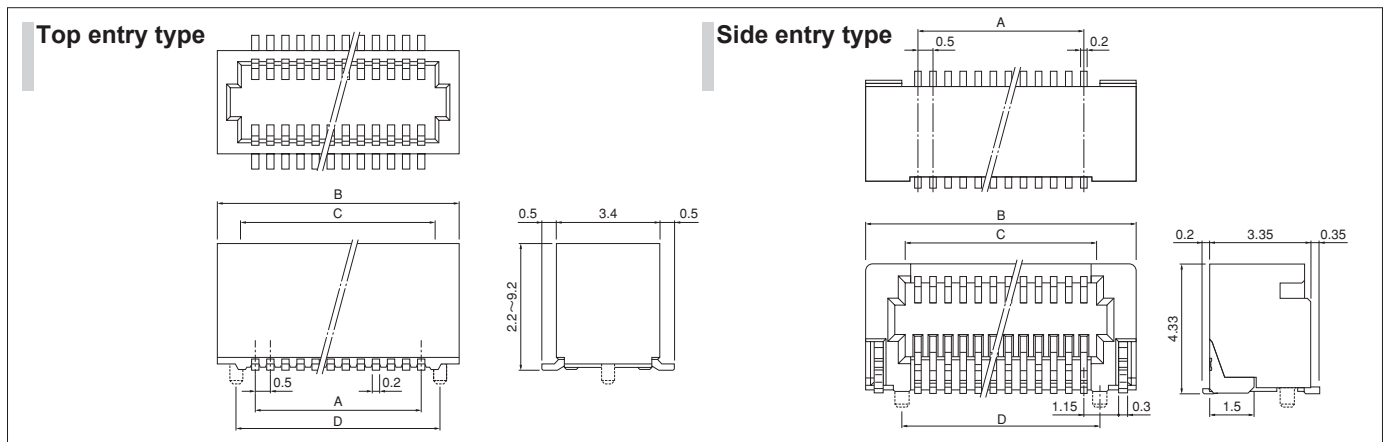


Side entry type

Absorption misalignment type



Plug



Top entry type

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		3.0	3.5	4.0	4.5	A	B	C	D
		18P3.0-JMCS-G-TF	20P3.5-JMCS-G-TF	24P3.5-JMCS-G-TF	20P4.5-JMCS-G-TF	4.0	6.4	4.9	—
Without bosses	20	20P3.0-JMCS-G-TF	20P3.5-JMCS-G-TF	—	—	4.5	6.9	5.4	—
	24	—	24P3.5-JMCS-G-TF	—	—	5.5	7.9	6.4	—
	30	30P3.0-JMCS-G-TF	30P3.5-JMCS-G-TF	30P4.0-JMCS-G-TF	—	7.0	9.4	7.9	—
	40	40P3.0-JMCS-G-TF	40P3.5-JMCS-G-TF	40P4.0-JMCS-G-TF	—	9.5	11.9	10.4	—
	50	50P3.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
	60	60P3.0-JMCS-G-TF	—	—	—	14.5	16.9	15.4	—
With bosses	20	20P3.0-JMCS-G-B-TF	20P3.5-JMCS-G-B-TF	—	20P4.5-JMCS-G-B-TF	4.5	6.9	5.4	5.7
	24	—	—	24P4.0-JMCS-G-B-TF	—	5.5	7.9	6.4	6.7
	30	—	30P3.5-JMCS-G-B-TF	30P4.0-JMCS-G-B-TF	—	7.0	9.4	7.9	8.2
	40	40P3.0-JMCS-G-B-TF	40P3.5-JMCS-G-B-TF	40P4.0-JMCS-G-B-TF	—	9.5	11.9	10.4	10.7
	44	44P3.0-JMCS-G-B-TF	—	—	—	10.5	12.9	11.4	11.7
	50	50P3.0-JMCS-G-B-TF	—	50P4.0-JMCS-G-B-TF	—	12.0	14.4	12.9	13.2
	60	—	—	60P4.0-JMCS-G-B-TF	—	14.5	16.9	15.4	15.7
Q'ty / reel		2,500	2,000	2,000	1,500				

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		5.0	5.5	6.0	6.5	A	B	C	D
		14P5.0-JMCS-G-TF	—	—	—	3.0	5.4	3.9	—
Without bosses	20	20P5.0-JMCS-G-TF	20P5.5-JMCS-G-TF	20P6.0-JMCS-G-TF	—	4.5	6.9	5.4	—
	30	—	—	—	30P6.5-JMCS-G-TF	7.0	9.4	7.9	—
	40	40P5.0-JMCS-G-TF	—	—	—	9.5	11.9	10.4	—
	50	50P5.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
	60	—	60P5.5-JMCS-G-TF	—	—	14.5	16.9	15.4	—
	60	—	—	—	—	14.5	16.9	15.4	—
With bosses	14	14P5.0-JMCS-G-B-TF	—	—	—	3.0	5.4	3.9	4.2
	20	20P5.0-JMCS-G-B-TF	20P5.5-JMCS-G-B-TF	20P6.0-JMCS-G-B-TF	—	4.5	6.9	5.4	5.7
	30	—	—	—	30P6.5-JMCS-G-B-TF	7.0	9.4	7.9	8.2
	40	40P5.0-JMCS-G-B-TF	—	40P6.0-JMCS-G-B-TF	40P6.5-JMCS-G-B-TF	9.5	11.9	10.4	10.7
	60	60P5.0-JMCS-G-B-TF	—	60P6.0-JMCS-G-B-TF	—	14.5	16.9	15.4	15.7
	60	—	—	—	—	14.5	16.9	15.4	15.7
Q'ty / reel		1,500	1,000	1,000	1,000				

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		7.0	7.5	8.0	8.5	A	B	C	D
		20P7.0-JMCS-G-TF	—	—	—	4.5	6.9	5.4	—
Without bosses	50	50P7.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
	34	—	—	—	34P8.5-JMCS-G-B-TF	8.0	10.4	8.9	9.2
With bosses	50	50P7.0-JMCS-G-B-TF	50P7.5-JMCS-G-B-TF	50P8.0-JMCS-G-B-TF	—	12.0	14.4	12.9	13.2
	64	—	—	64P8.0-JMCS-G-B-TF	—	15.5	17.9	16.4	16.7
Q'ty / reel		1,000	600	600	500				

	Circuits	Model No. Stacking height (mm)				Dimensions (mm)			
		9.0	10.0	—	—	A	B	C	D
		—	20P10.0-JMCS-G-TF	—	—	4.5	6.9	5.4	—
Without bosses	30	30P9.0-JMCS-G-TF	—	—	—	7.0	9.4	7.9	—
	50	50P9.0-JMCS-G-TF	—	—	—	12.0	14.4	12.9	—
	20	—	20P10.0-JMCS-G-B-TF	—	—	4.5	6.9	5.4	5.7
With bosses	30	30P9.0-JMCS-G-B-TF	—	—	—	7.0	9.4	7.9	8.2
	40	40P9.0-JMCS-G-B-TF	40P10.0-JMCS-G-B-TF	—	—	9.5	11.9	10.4	10.7
	50	50P9.0-JMCS-G-B-TF	—	—	—	12.0	14.4	12.9	13.2
	60	60P9.0-JMCS-G-B-TF	—	—	—	14.5	16.9	15.4	15.7
Q'ty / reel		500	500	—	—				

RoHS compliance

Note: 1. The stacking height of absorption misalignment type is 1.0mm higher than that of standard type.

2. Nickel-stripe product: "(N)" is suffixed to the model No.

3. The products listed above are supplied on embossed-tape.

JMC CONNECTOR

Plug

Side entry type

	Circuits	Model No.	Dimensions (mm)				Q'ty/ reel
			A	B	C	D	
Without bosses	20	20PS-JMCS-G-1-TF	4.5	7.9	5.4	—	1,500
	24	24PS-JMCS-G-1-TF	5.5	8.9	6.4	—	1,500
	30	30PS-JMCS-G-1-TF	7.0	10.4	7.9	—	1,500
	34	34PS-JMCS-G-1-TF	8.0	11.4	8.9	—	1,500
	40	40PS-JMCS-G-1-TF	9.5	12.9	10.4	—	1,500
	50	50PS-JMCS-G-1-TF	12.0	15.4	12.9	—	1,500
	60	60PS-JMCS-G-1-TF	14.5	17.9	15.4	—	1,500
With bosses	20	20PS-JMCS-G-1B-TF	4.5	7.9	5.4	5.55	1,500
	24	24PS-JMCS-G-1B-TF	5.5	8.9	6.4	6.55	1,500
	30	30PS-JMCS-G-1B-TF	7.0	10.4	7.9	8.05	1,500
	34	34PS-JMCS-G-1B-TF	8.0	11.4	8.9	9.05	1,500
	40	40PS-JMCS-G-1B-TF	9.5	12.9	10.4	10.55	1,500
	46	46PS-JMCS-G-1B-TF	11.0	14.4	11.9	12.05	1,500
	50	50PS-JMCS-G-1B-TF	12.0	15.4	12.9	13.05	1,500
	60	60PS-JMCS-G-1B-TF	14.5	17.9	15.4	15.55	1,500

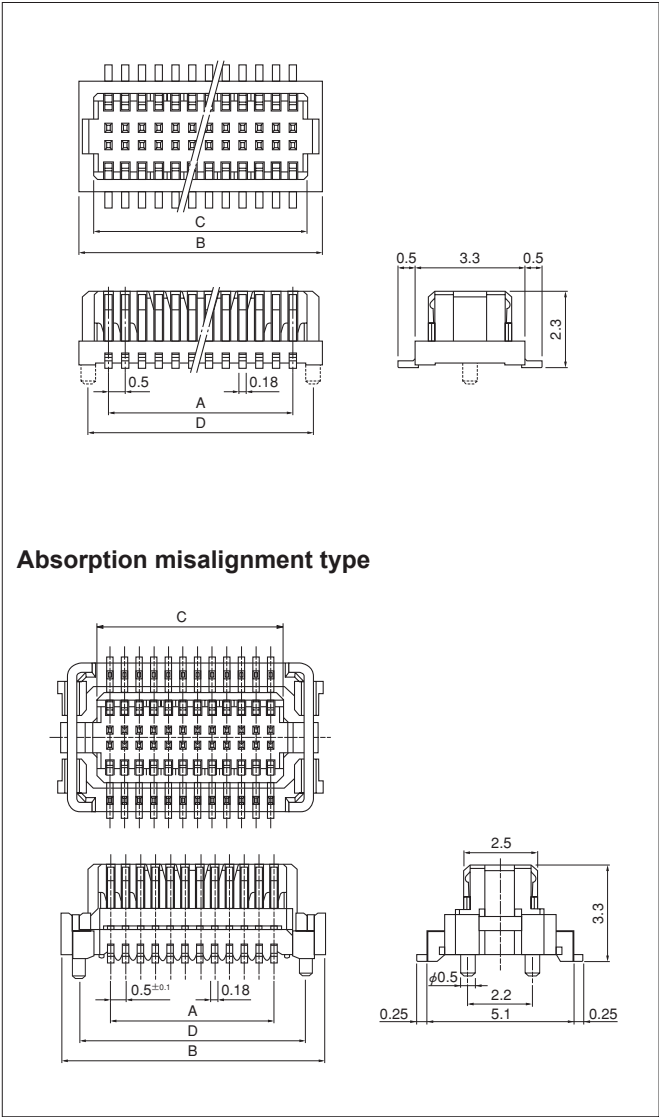
Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, tin-plated (reflow treatment)

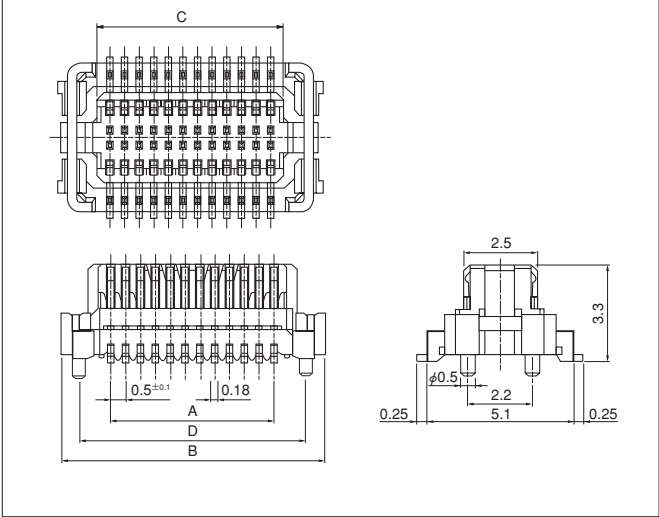
RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(N)" is suffixed to the model No.

Receptacle



Absorption misalignment type



Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
14	14R-JMCS-G-TF (S)	14R-JMCS-G-B-TF(S)	3.0	4.8	3.9	4.2	2,500
18	18R-JMCS-G-TF (S)	—	4.0	5.8	4.9	5.2	2,500
20	20R-JMCS-G-TF (S)	20R-JMCS-G-B-TF(S)	4.5	6.3	5.4	5.7	2,500
24	24R-JMCS-G-TF (S)	24R-JMCS-G-B-TF(S)	5.5	7.3	6.4	6.7	2,500
30	30R-JMCS-G-TF (S)	30R-JMCS-G-B-TF(S)	7.0	8.8	7.9	8.2	2,500
34	34R-JMCS-G-TF (S)	34R-JMCS-G-B-TF(S)	8.0	9.8	8.9	9.2	2,500
40	40R-JMCS-G-TF (S)	40R-JMCS-G-B-TF(S)	9.5	11.3	10.4	10.7	2,500
46	46R-JMCS-G-TF (S)	46R-JMCS-G-B-TF(S)	11.0	12.8	11.9	12.2	2,500
50	50R-JMCS-G-TF (S)	50R-JMCS-G-B-TF(S)	12.0	13.8	12.9	13.2	2,500
60	60R-JMCS-G-TF (S)	60R-JMCS-G-B-TF(S)	14.5	16.3	15.4	15.7	2,500

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0

RoHS compliance

Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(NSA)" instead of "(S)" is suffixed to model No.

Absorption misalignment type

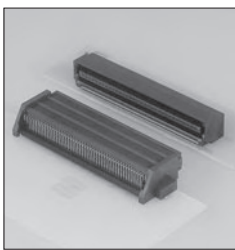
Circuits	Model No.		Dimensions (mm)				Q'ty / reel
	Without bosses	With bosses	A	B	C	D	
20	20RF-JMCS-G-1-TF	20RF-JMCS-G-1B-TF	4.5	8.0	5.4	6.75	1,000
30	30RF-JMCS-G-1-TF	30RF-JMCS-G-1B-TF	7.0	10.5	7.9	9.25	1,000
40	40RF-JMCS-G-1-TF	40RF-JMCS-G-1B-TF	9.5	13.0	10.4	11.75	1,000
44	—	*44RF-JMCS-G-1B-TF	10.5	14.0	11.4	12.75	1,000
50	50RF-JMCS-G-1-TF	50RF-JMCS-G-1B-TF	12.0	15.5	12.9	14.25	1,000
60	60RF-JMCS-G-1-TF	60RF-JMCS-G-1B-TF	14.5	18.0	15.4	16.75	1,000
64	—	*64RF-JMCS-G-1B-TF	15.5	19.0	16.4	17.75	1,000

Material and Finish

Contact: Phosphor bronze, nickel-undercoated, gold-plated
Housing: PA 6T, UL94V-0
Solder tab: Brass, copper-undercoated, tin-plated (reflow treatment)

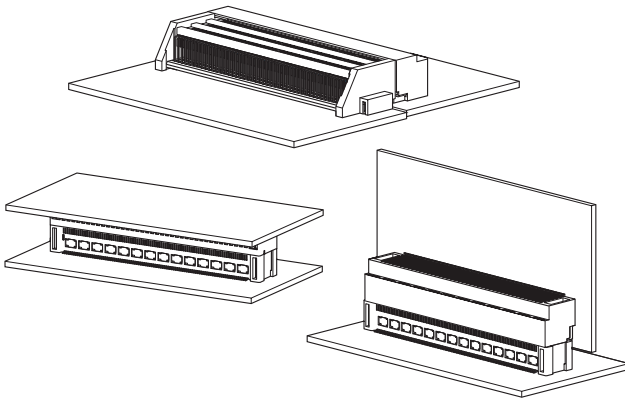
RoHS compliance This product displays (LF)(SN) on a label.

Note: 1. The products listed above are supplied on embossed-tape.
2. Nickel-stripe product: "(N)" is suffixed to model No.
3. *Marked products are not CSA approved.



JU CONNECTOR

0.6mm pitch/Board-to-board connectors



JU connector is developed upon recent market requirement, which demands higher density for digitized electronic equipment. Various mating combination can be chosen at your purpose vertically/horizontally, both plug and receptacle are available top and side entry. Box type wafer prevents from scattered flux equipped with polarized shape which guides correct mating. Longer mating stroke stabilize and secure mating and contact performance.

- Higher density contributes
- Various combination
- Lower insertion force

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/80m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 50M Ω min.
- Withstanding voltage: 100V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

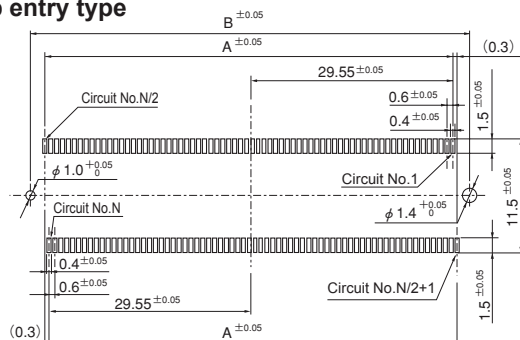
Standards

Recognized E60389

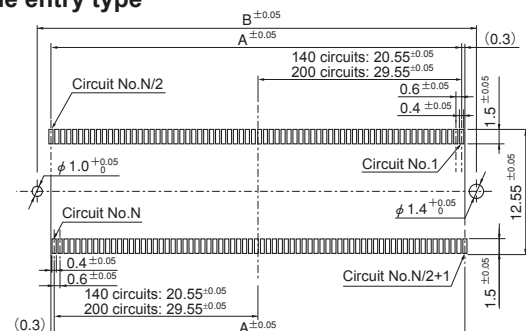
Certified LR20812

PC board layout (viewed from component side)

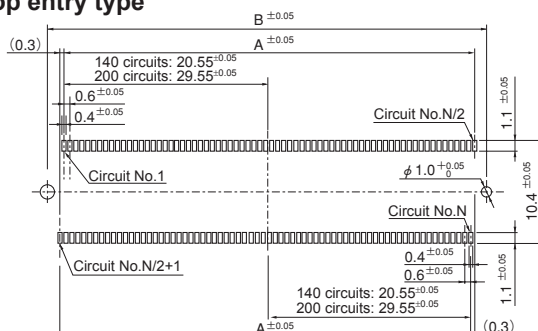
Plug Top entry type



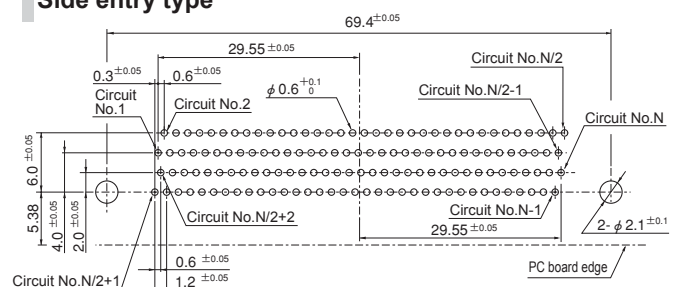
Plug Side entry type



Receptacle Top entry type



Receptacle Side entry type



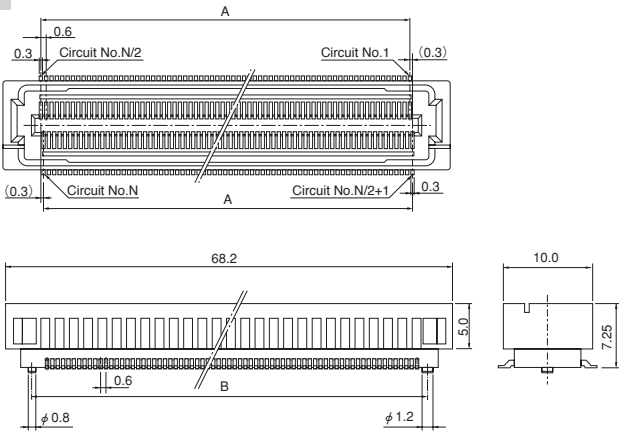
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

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.

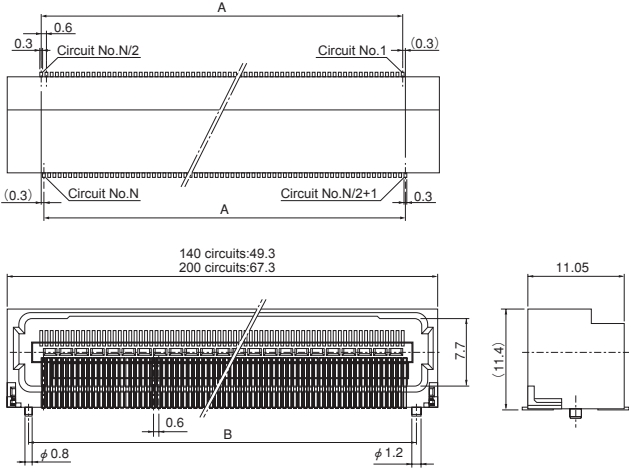
JU CONNECTOR

Plug

Top entry type



Side entry type



Cir- cuits	Model No.		Dimensions(mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
140	—	140PS-JUK-G-B(A)	41.4	44.5	—	60
200	200P-JUK-G-B	200PS-JUK-G-B(A)	59.4	62.5	75	60

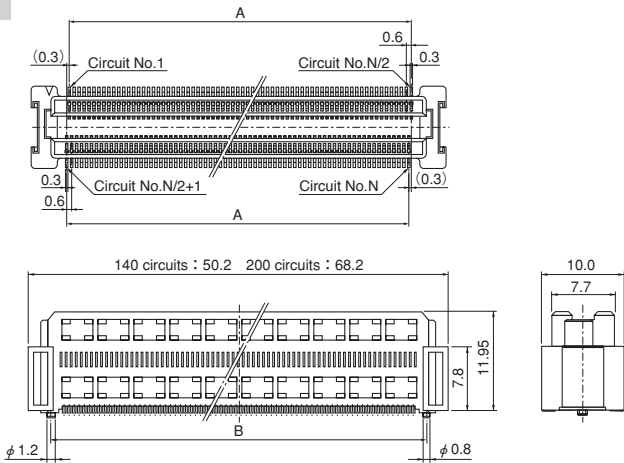
Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

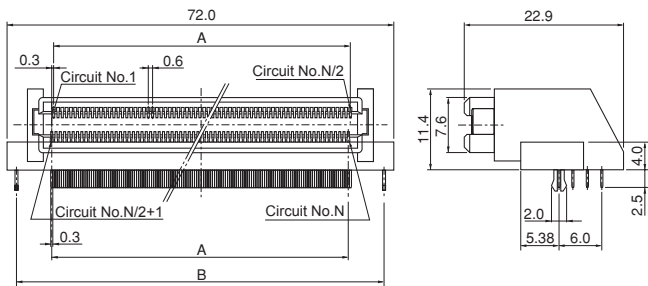
RoHS compliance

Receptacle

Top entry type



Side entry type



Top entry type

Cir- cuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
140	140R-JUK-G-B	41.4	44.5	45
200	200R-JUK-G-B	59.4	62.5	45

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: LCP, UL94V-0

RoHS compliance

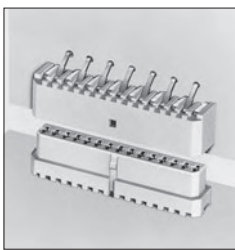
Side entry type

Cir- cuits	Model No.	Dimensions(mm)		Q'ty / box
		A	B	
200	200RS-JUK-GB	59.4	69.4	128

Material and Finish

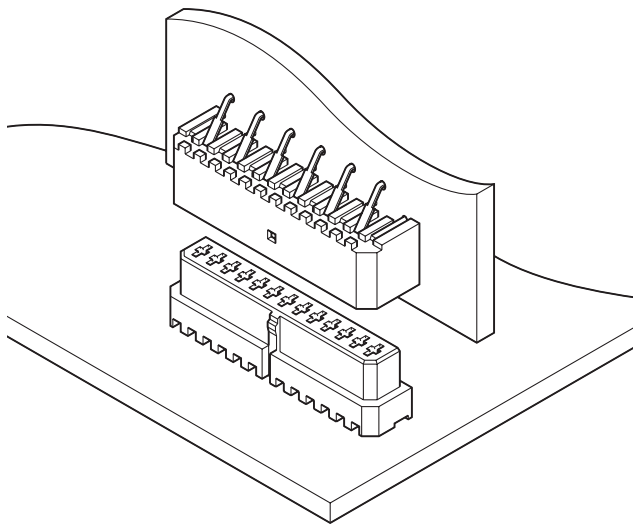
Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin/copper alloy-plated
Housing: LCP, UL94V-0
Locator: Synthetic resin
Solder tab: Copper-alloy, tin-plated (reflow treatment)

RoHS compliance



JE CONNECTOR

1.25mm pitch/Board-to-board connectors



The JE connector is a compact, board-to-board connector only 6.8mm high and 3.6mm wide. Its mating part has a 1.25mm pitch, single row construction. High contact pressure dual beam fork contacts are combined with a housing lock mechanism to ensure a reliable connection.

- A compact design to meet today's needs
- Secure locking and reliable connection
- Box shaped housing
- Easy mounting and no flux problems

Specifications

- Current rating: 1.0A 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/40m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

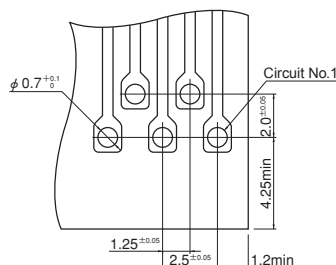
Standards

Recognized E60389

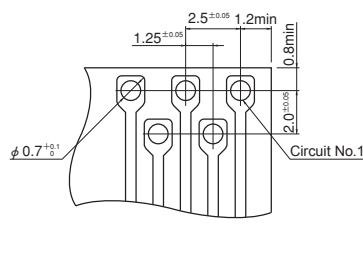
Certified LR20812

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

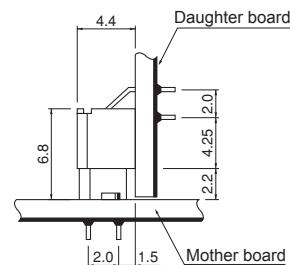
Plug



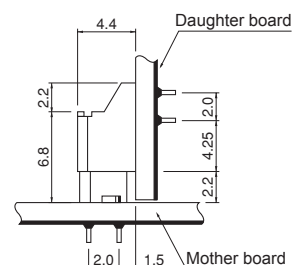
Receptacle



Without stopper



With stopper



Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ 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.

Note: The daughter board should be secured. For details of the securing method, contact JST.

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

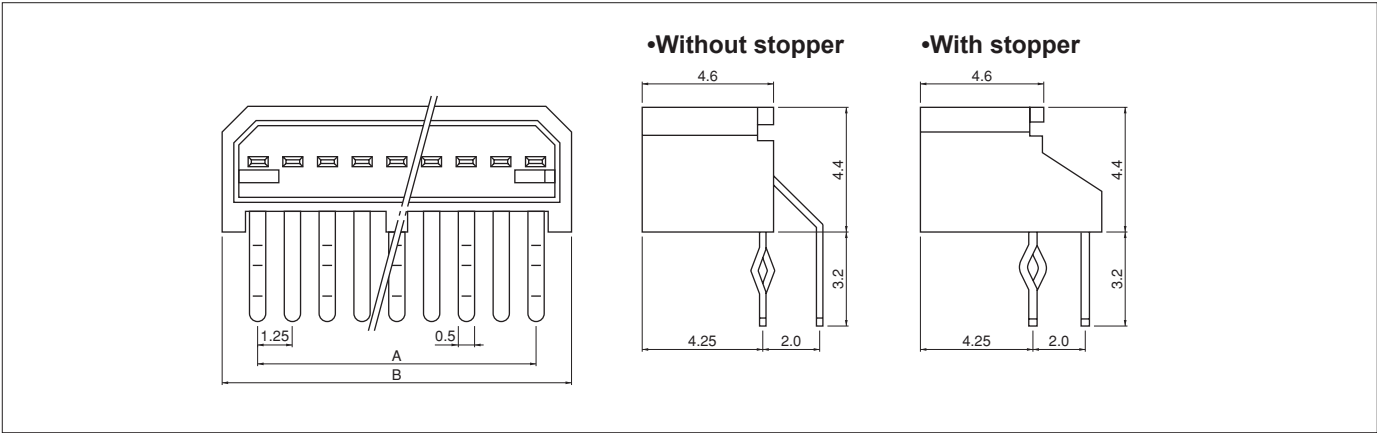
info@wernerwirth.de
www.wernerwirth.de



PROJECT | CONNECT | PROTECT

JE CONNECTOR

Plug

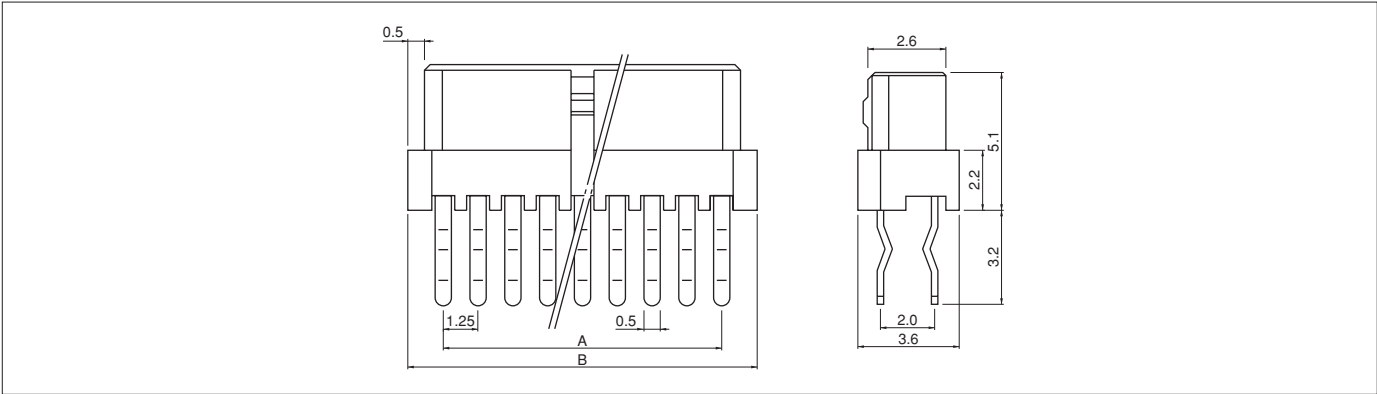


Circuits	Model No.		Dimensions (mm)		Q'ty / box
	Without stopper	With stopper	A	B	
5	05PS-JE	05PSL-JE	5.0	7.4	1,400
7	07PS-JE	07PSL-JE	7.5	9.9	1,050
9	09PS-JE	09PSL-JE	10.0	12.4	800
11	11PS-JE	11PSL-JE	12.5	14.9	700
13	13PS-JE	13PSL-JE	15.0	17.4	600
15	15PS-JE	15PSL-JE	17.5	19.9	500
17	17PS-JE	17PSL-JE	20.0	22.4	450
19	19PS-JE	19PSL-JE	22.5	24.9	400

Material and Finish
Contact: Brass, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

RoHS compliance

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
5	05R-JE	5.0	7.4	1,000
7	07R-JE	7.5	9.9	1,000
9	09R-JE	10.0	12.4	1,700
11	11R-JE	12.5	14.9	1,400
13	13R-JE	15.0	17.4	1,200
15	15R-JE	17.5	19.9	1,000
17	17R-JE	20.0	22.4	900
19	19R-JE	22.5	24.9	800

Material and Finish
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

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

Werner Wirth GmbH

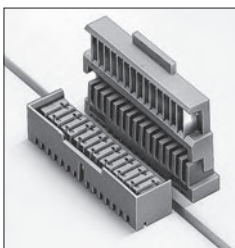
Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de

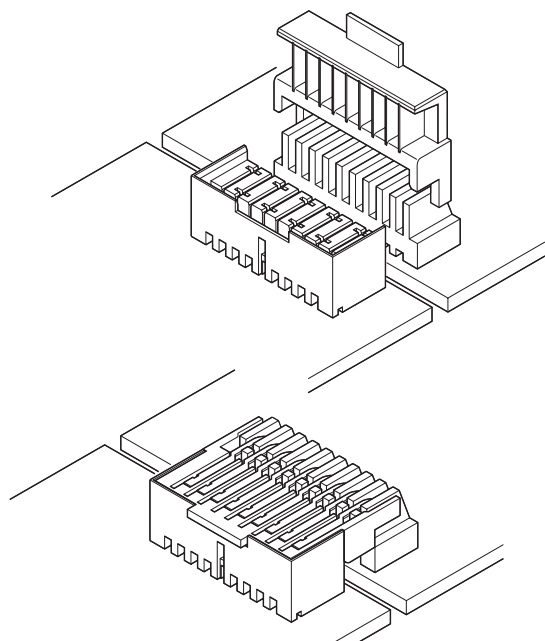


PROJECT | CONNECT | PROTECT



1.25FJ CONNECTOR

1.25mm pitch/Board-to-board connectors



The 1.25FJ connector is a 1.25mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- **Low profile**
- **Allows connection after mounting**
- **Assures a reliable connection**

Specifications

- Current rating: 0.5A(1.0A :1.25FJ-N type) AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance:
 - Short type.....Initial value/40m Ω max.
After environmental testing/60m Ω max.
 - Long type.....Initial value/70m Ω max.
After environmental testing/90m Ω max.
 - 1.25FJ-N type... Initial value/50m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

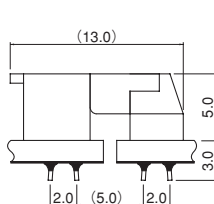
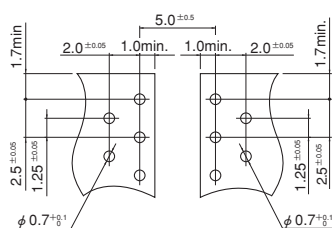
Standards

Ⓜ Recognized E60389

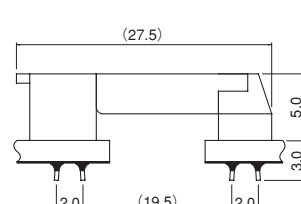
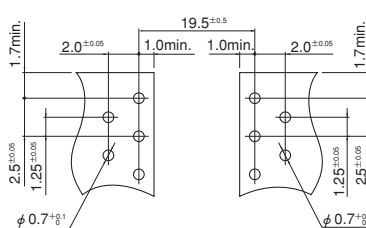
Ⓢ Certified LR20812

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

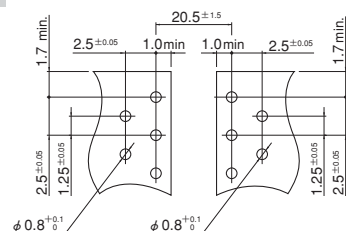
Short type



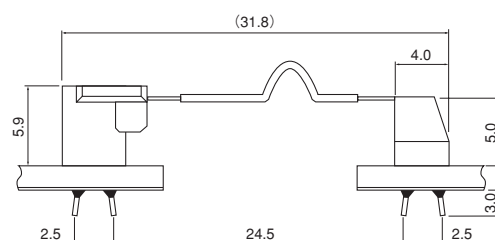
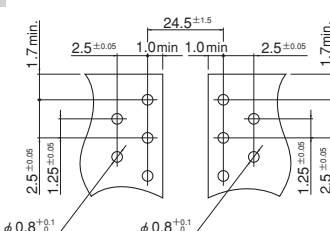
Long type



1.25FJ-N type(250)



1.25FJ-N type(280)



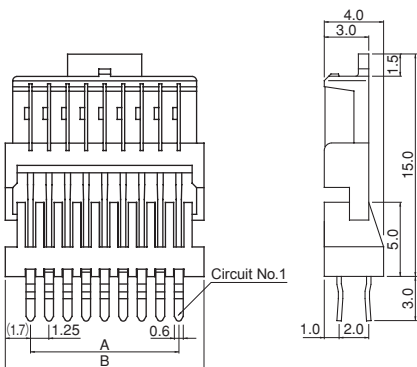
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

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.

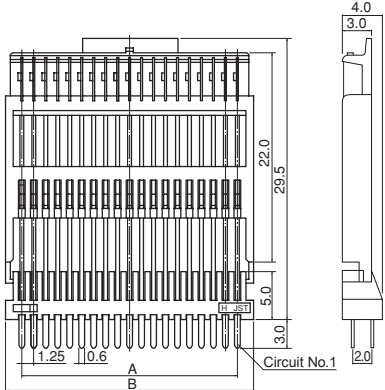
1.25FJ CONNECTOR

Plug

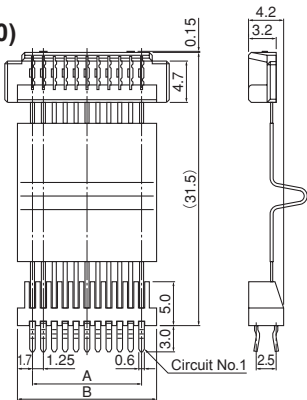
Short type



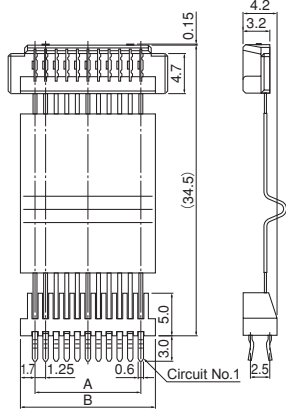
Long type



1.25FJ-N type (250)



1.25FJ-N type (280)



Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	Long type	1.25FJ-N type		A	B	Short type	Long type	1.25FJ-N type	
			250 type	280 type					250 type	280 type
7	—	—	07P250K-1.25FJNA	07P280K-1.25FJN	7.5	10.9	—	—	400	400
9	09P-1.25FJ	—	—	—	10.0	13.4	120	—	—	—
11	11P-1.25FJ	—	11P250K-1.25FJNA	11P280K-1.25FJN	12.5	15.9	120	—	280	280
13	13P-1.25FJ	—	13P250K-1.25FJNA	13P280K-1.25FJN	15.0	18.4	120	—	280	280
15	15P-1.25FJ	—	—	—	17.5	20.9	120	—	—	—
19	19P-1.25FJ	19P215S-1.25FJ	19P250K-1.25FJNA	19P280K-1.25FJN	22.5	25.9	120	280	200	200
21	21P-1.25FJ	—	—	—	25.0	28.4	120	—	—	—

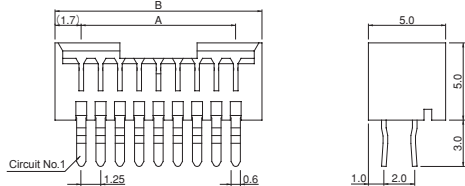
Material and Finish

Contact: Short type & Long type / Phosphor bronze, tin-plated (reflow treatment)
1.25FJ-N type / Copper-alloy, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

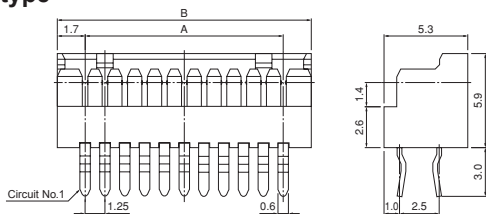
RoHS compliance

Receptacle

Short type & Long type



1.25FJ-N type

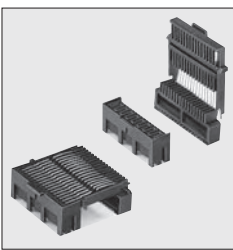


Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type & Long type	1.25FJ-N type	A	B	Short type & Long type	1.25FJ-N type
7	—	07RK-1.25FJN	7.5	10.9	—	1,710
9	09R-1.25FJ	—	10.0	13.4	500	—
11	11R-1.25FJ	11RK-1.25FJN	12.5	15.9	500	1,170
13	13R-1.25FJ	13RK-1.25FJN	15.0	18.4	500	990
15	15R-1.25FJ	—	17.5	20.9	500	—
19	19R-1.25FJ	19RK-1.25FJN	22.5	25.9	250	720
21	21R-1.25FJ	—	25.0	28.4	200	—

Material and Finish

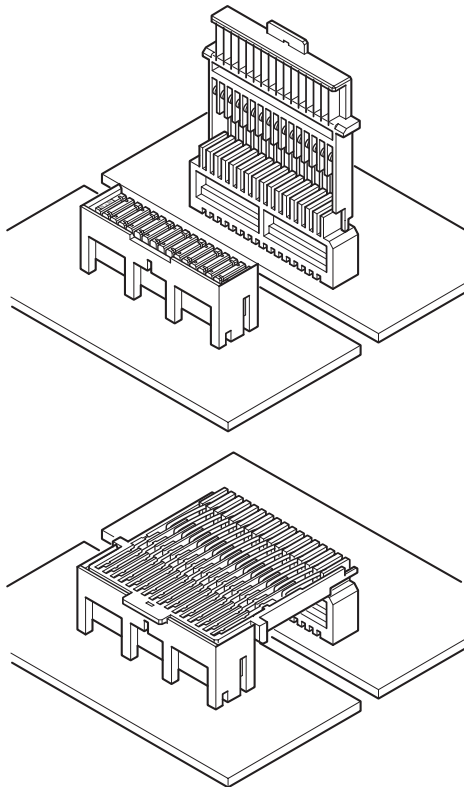
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PA 66, UL94V-0

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



1.5FJ CONNECTOR

1.5mm pitch/Board-to-board connectors



The 1.5FJ connector is a 1.5mm pitch board-to-board connector. Its plug consists of a unique flexible hinge that absorbs circuit board misalignment. Board-to-board connection requires less labor and is more reliable because the connection can be made without the use of harnesses after the printed circuit boards are installed in their enclosures.

- Flexible connection absorbs circuit board misalignment
- Provides a low profile mount and allows connection after mounting
- Assures a reliable connection

Specifications

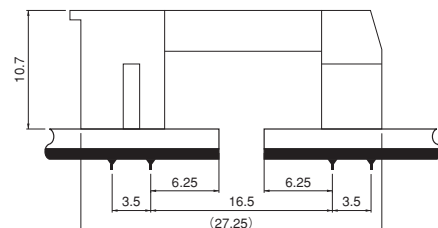
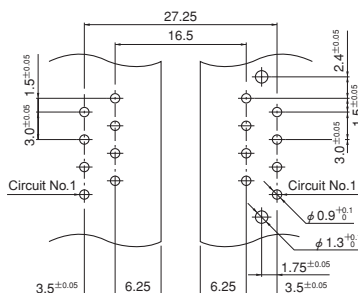
- Current rating: 0.5A AC, DC
- Voltage rating: 50V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/80m Ω max.
After environmental testing/100m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * 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

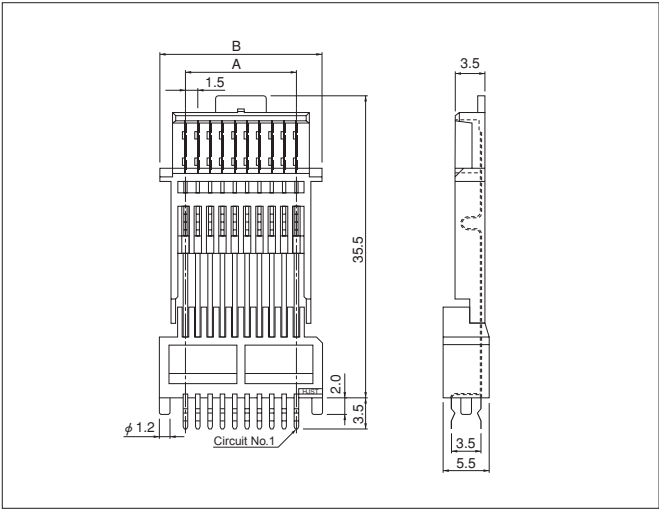


Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

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.

1.5FJ CONNECTOR

Plug



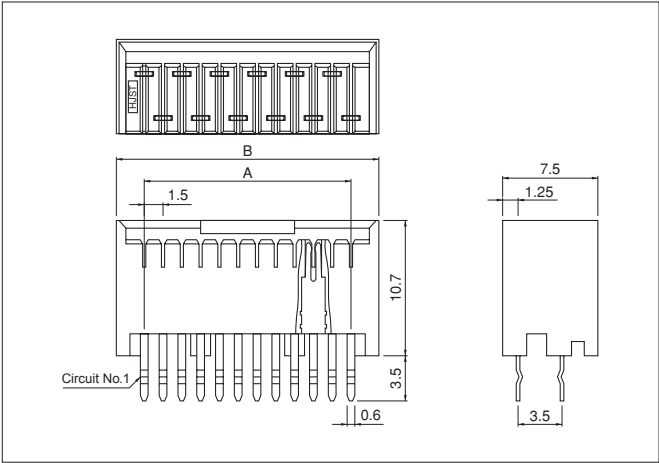
Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	08P-1.5FJ	10.5	16.5	245
16	16P-1.5FJ	22.5	28.5	140

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0, black

RoHS compliance

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
8	08R-1.5FJ	10.5	15.0	440
16	16R-1.5FJ	22.5	27.0	220

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0, black

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

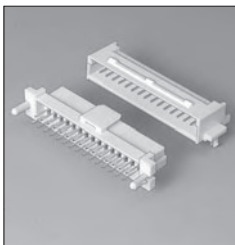
Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

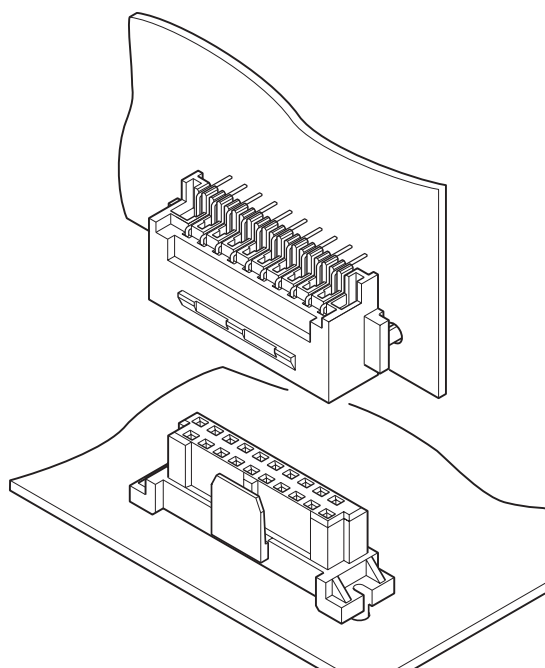
info@wernerwirth.de
www.wernerwirth.de





JDV CONNECTOR

1.5mm pitch/Hinge type Board-to-board Connectors



The JDV connector is designed for board-to-board connection with locking device, and highly resistant to equipment vibration and shock.

- Two type Locking device
- Staggered Solder Tails
- Positioning boss (projection)

Specifications

- Current rating: 1.0A 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/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 800M Ω min.
- Withstanding voltage: 300V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

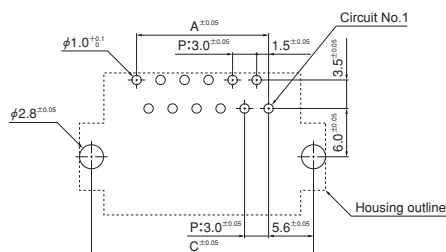
Standards

Recognized E60389

Certified LR20812

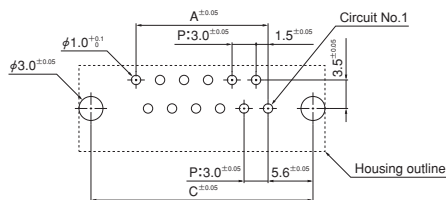
PC board layout (viewed from component side) and Assembly layout

Plug

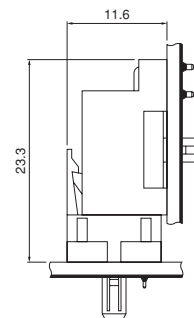
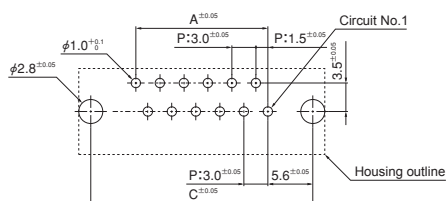


Receptacle

Resin hook type



Metal hook type



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

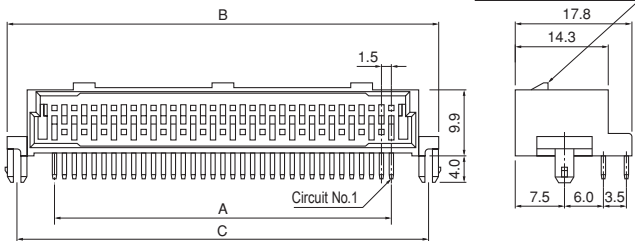
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

JDV CONNECTOR

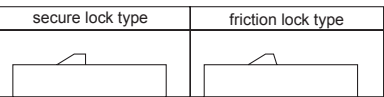
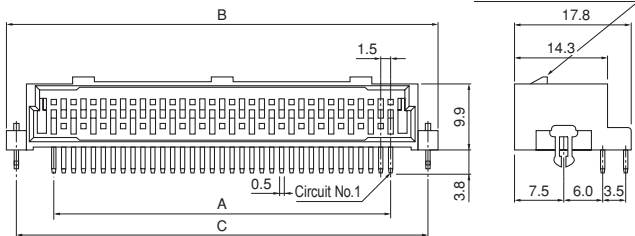
Plug

Retention lock type

Resin hook type



Metal hook type



Enlarged views of lock shape are as follows.

Enlarged views of lock shape are as follows.

Resin hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
15	JDV-PS15LB-10-1	—	21.0	35.5	32.2	400
20	JDV-PS20LB-10-1	JDV-PS20FLB-10-1	28.5	43.0	39.7	320
25	JDV-PS25LB-10-1	JDV-PS25FLB-10-1	36.0	50.5	47.2	280
30	JDV-PS30LB-10-1	JDV-PS30FLB-10-1	43.5	58.0	54.7	240
35	JDV-PS35LB-10-1	JDV-PS35FLB-10-1	51.0	65.5	62.2	200
40	JDV-PS40LB-10-1	JDV-PS40FLB-10-1	58.5	73.0	69.7	160
50	JDV-PS50LB-10-1	JDV-PS50FLB-10-1	73.5	88.0	84.7	160

Material and Finish

Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

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

Metal hook type

Circuits	Model No.		Dimensions (mm)			Q'ty / box
	secure lock type	friction lock type	A	B	C	
20	JDV-PS20LB-10A	—	28.5	43.0	39.7	320
25	JDV-PS25LB-10A	—	36.0	50.5	47.2	280
30	JDV-PS30LB-10A	JDV-PS30FLB-10A	43.5	58.0	54.7	240
35	JDV-PS35LB-10A	JDV-PS35FLB-10A	51.0	65.5	62.2	200
40	JDV-PS40LB-10A	—	58.5	73.0	69.7	160
50	JDV-PS50LB-10A	JDV-PS50FLB-10A	73.5	88.0	84.7	160
65	—	JDV-PS65FLB-10A	96.0	110.5	107.2	120

Material and Finish

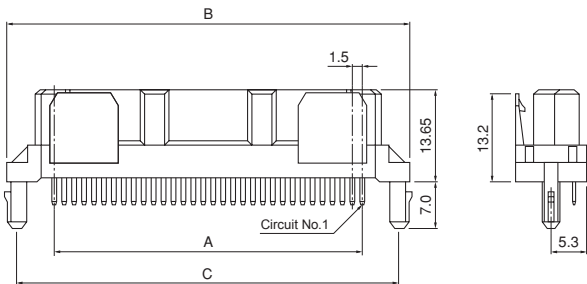
Contact: Brass, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

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

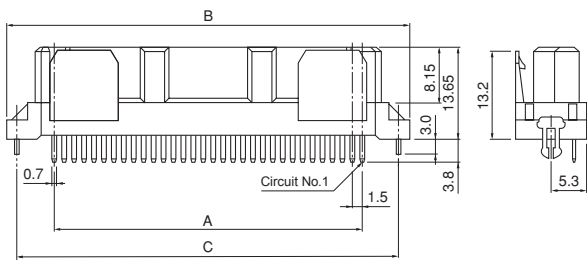
Receptacle

Retention lock type

Resin hook type



Metal hook type



Resin hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
15	JDV-R15LB-10-1	21.0	35.5	32.2	500
20	JDV-R20LB-10-1	28.5	43.0	39.7	400
25	JDV-R25LB-10-1	36.0	50.5	47.2	350
30	JDV-R30LB-10-1	43.5	58.0	54.7	300
35	JDV-R35LB-10-1	51.0	65.5	62.2	250
40	JDV-R40LB-10-1	58.5	73.0	69.7	200
50	JDV-R50LB-10-1	73.5	88.0	84.7	200

Material and Finish

Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0

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

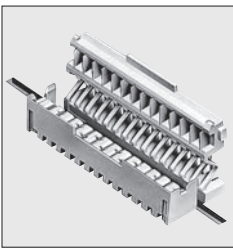
Metal hook type

Circuits	Model No.	Dimensions (mm)			Q'ty / box
		A	B	C	
20	JDV-R20LB-10A	28.5	43.0	39.7	400
25	JDV-R25LB-10A	36.0	50.5	47.2	350
30	JDV-R30LB-10A	43.5	58.0	54.7	300
35	JDV-R35LB-10A	51.0	65.5	62.2	250
40	JDV-R40LB-10A	58.5	73.0	69.7	200
50	JDV-R50LB-10A	73.5	88.0	84.7	200
65	JDV-R65LB-10A	96.0	110.5	107.2	150

Material and Finish

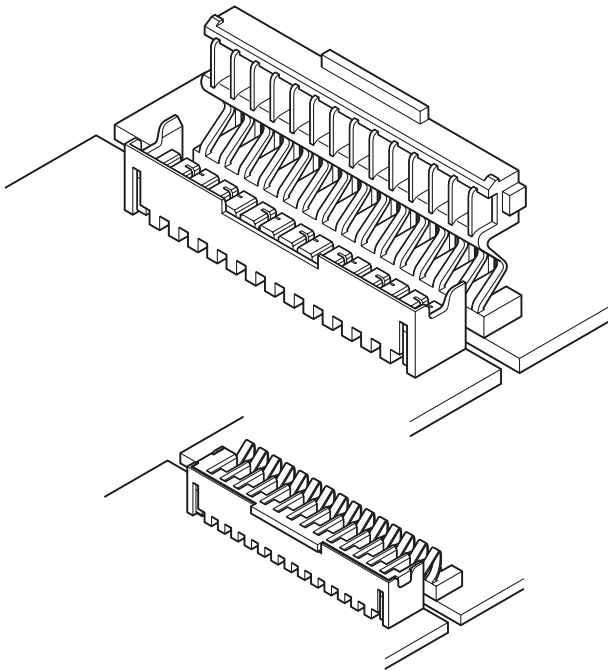
Contact: Phosphor bronze, nickel-undercoated,
Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Glass-filled PBT, UL94V-0
Reinforcing pin: Brass, copper-undercoated, tin-plated (reflow treatment)

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



FJ CONNECTOR

2.0mm pitch/Board-to-board connectors



The FJ board-to-board connector absorbs lateral and longitudinal alignment errors thanks to an innovative new design that provides flexible connection between closely spaced circuit boards. Added advantages are simplified and less stringent packaging specifications for board-to-board connections and a higher quality end product.

- **Flexible connection absorbs circuit board misalignment**
- **Provides a low profile mount and allows connection after mounting**
- **Assures a reliable connection**

Specifications

- Current rating: 1.0A 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/40m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

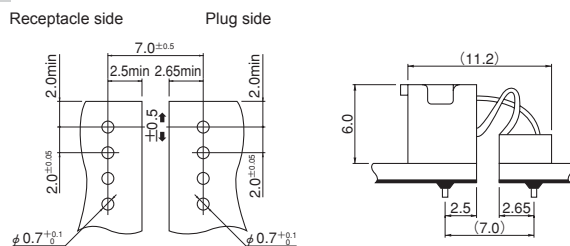
Standards

Recognized E60389

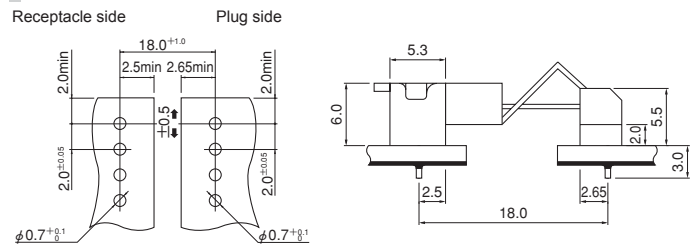
Certified LR20812

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

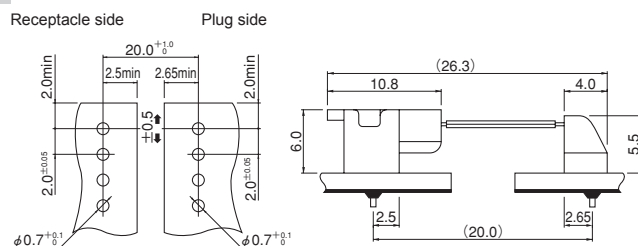
Short type



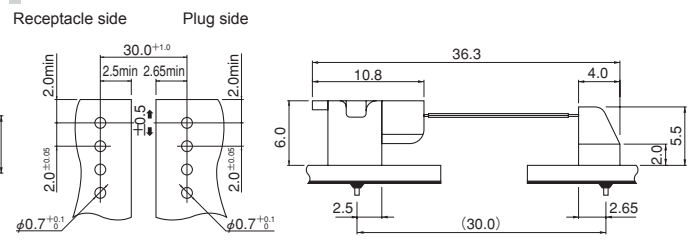
FJ-V type



FJ-L type



FJ-K type



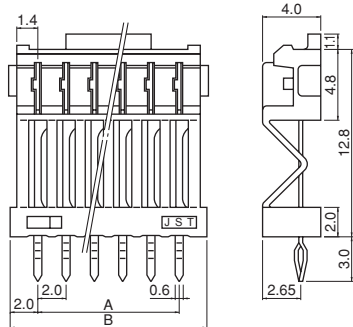
Note: 1. Tolerances are non-cumulative: ±0.05mm for all centers.

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.

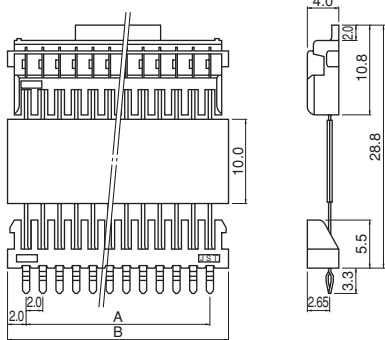
FJ CONNECTOR

Plug

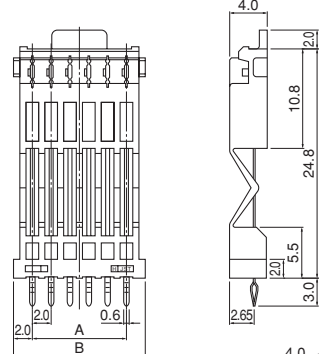
Short type



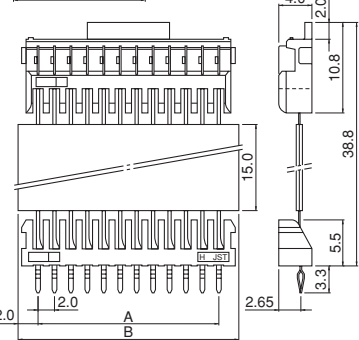
FJ-L type



FJ-V type



FJ-K type



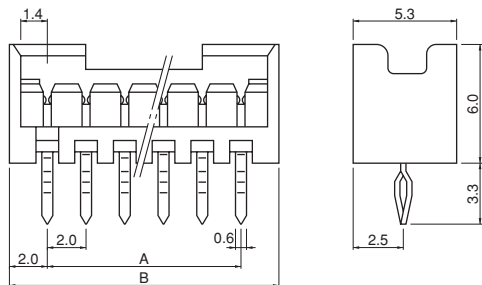
Circuits	Model No.				Dimensions (mm)		Q'ty / box			
	Short type	FJ-V type	FJ-L type	FJ-K type	A	B	Short type	FJ-V type	FJ-L type	FJ-K type
4	04P-FJ	—	—	—	6.0	10.0	500	—	—	—
5	—	—	05PL-FJ	05PK-FJ	8.0	12.0	—	—	250	150
6	06P-FJ	—	06PL-FJ	06PK-FJ	10.0	14.0	250	—	200	150
7	07P-FJ	—	07PL-FJ	07PK-FJ	12.0	16.0	250	—	200	100
8	08P-FJ	—	08PL-FJ	08PK-FJ	14.0	18.0	200	—	200	100
9	09P-FJ	—	—	—	16.0	20.0	200	—	—	—
10	10P-FJ	—	10PL-FJ	10PK-FJ	18.0	22.0	200	—	100	100
11	11P-FJ	11PV-FJ	—	—	20.0	24.0	200	168	—	—
12	12P-FJ	—	12PL-FJ	12PK-FJ	22.0	26.0	100	—	100	50
13	—	13PV-FJ	—	—	24.0	28.0	—	168	—	—
14	14P-FJ	—	14PL-FJ	14PK-FJ	26.0	30.0	100	—	100	50
15	—	15PV-FJ	—	—	28.0	32.0	—	168	—	—

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white
Insulation tape: Acetate, UL510FR (FJ-L type)
Polyester, UL94V-0 (FJ-K type)

RoHS compliance

Receptacle

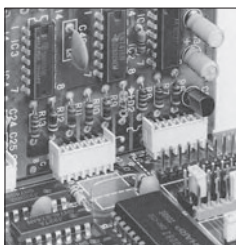


Circuits	Model No.	Dimensions (mm)		Q'ty / box
		A	B	
4	04R-FJ	6.0	10.0	500
5	05R-FJ	8.0	12.0	500
6	06R-FJ	10.0	14.0	500
7	07R-FJ	12.0	16.0	500
8	08R-FJ	14.0	18.0	250
9	09R-FJ	16.0	20.0	250
10	10R-FJ	18.0	22.0	250
11	11R-FJ	20.0	24.0	250
12	12R-FJ	22.0	26.0	200
13	13R-FJ	24.0	28.0	200
14	14R-FJ	26.0	30.0	200
15	15R-FJ	28.0	32.0	200

Material and Finish

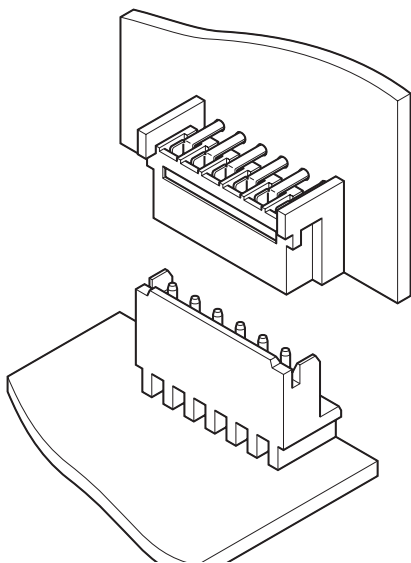
Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, white

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



MQ CONNECTOR

2.0mm pitch/Board-to-board connectors



Measuring 2.0mm in pitch, 9.2mm in mounting height and 5.5mm in thickness, this board-to-board connector makes high-density mounting of components in electronic products possible. It is ideal for small electronic products, such as portable VCRs and video cameras, which require high-density mounting and high reliability.

- Back-up support spring construction
- Easy insertion
- Board retention feature

Specifications

- Current rating: 1.0A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to $+85^{\circ}\text{C}$
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 800V AC/minute
- Applicable PC board thickness: 1.2 to 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

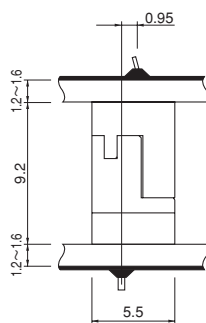
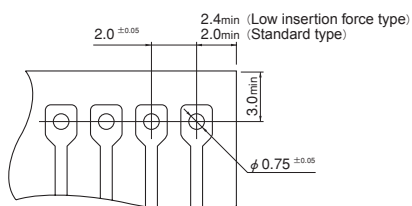
Ⓜ Recognized E60389

Ⓢ Certified LR20812

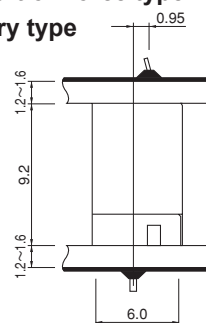
⚠ R9351042

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

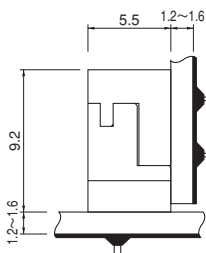
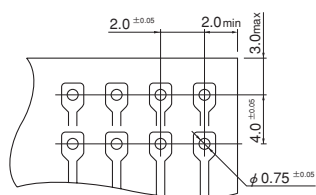
Top entry type



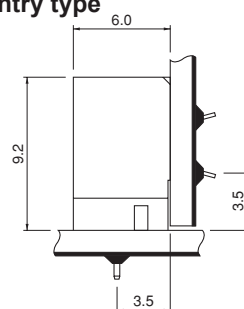
Low insertion force type Top entry type



Side entry type



Low insertion force type Side entry type



Note: 1. The PC board layout of the header is identical to that of the top entry receptacle.

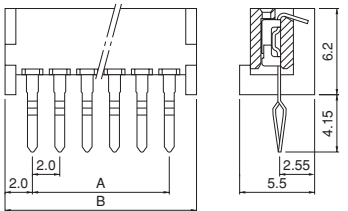
2. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

3. 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.

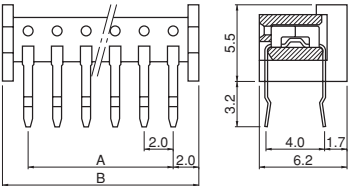
MQ CONNECTOR

Receptacle

Top entry type



Side entry type



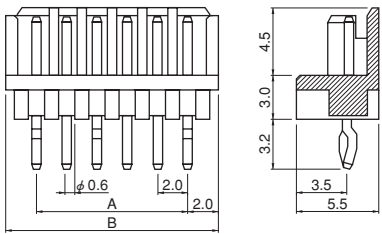
Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
5	05MQ-BT	05MQ-ST	8.0	12.0	500	500
6	06MQ-BT	06MQ-ST	10.0	14.0	500	500
7	07MQ-BT	07MQ-ST	12.0	16.0	500	500
8	08MQ-BT	08MQ-ST	14.0	18.0	500	250
9	09MQ-BT	09MQ-ST	16.0	20.0	500	250
10	10MQ-BT	10MQ-ST	18.0	22.0	250	250
12	12MQ-BT	12MQ-ST	22.0	26.0	250	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Shrouded header



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	B5P-MQ	8.0	12.0	500
6	B6P-MQ	10.0	14.0	500
7	B7P-MQ	12.0	16.0	500
8	B8P-MQ	14.0	18.0	500
9	B9P-MQ	16.0	20.0	500
10	B10P-MQ	18.0	22.0	250
12	B12P-MQ	22.0	26.0	200

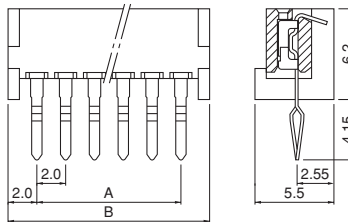
Material and Finish

Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural

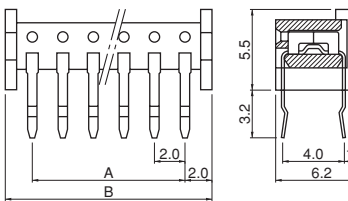
RoHS compliance This product displays (LF)(SN) on a label.

Low insertion force type Receptacle

Top entry type



Side entry type



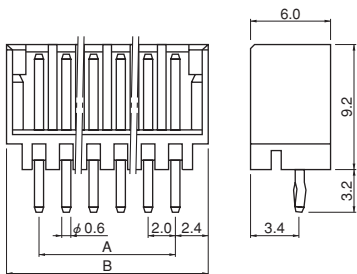
Circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
4	04MQ-BT-L	04MQ-ST-L	6.0	10.0	500	500
5	05MQ-BT-L	05MQ-ST-L	8.0	12.0	500	500
6	06MQ-BT-L	06MQ-ST-L	10.0	14.0	500	500
7	07MQ-BT-L	07MQ-ST-L	12.0	16.0	500	500
8	08MQ-BT-L	08MQ-ST-L	14.0	18.0	500	250
9	09MQ-BT-L	09MQ-ST-L	16.0	20.0	500	250
10	10MQ-BT-L	10MQ-ST-L	18.0	22.0	250	250
12	12MQ-BT-L	12MQ-ST-L	22.0	26.0	250	250

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

RoHS compliance

Low insertion force type Shrouded header

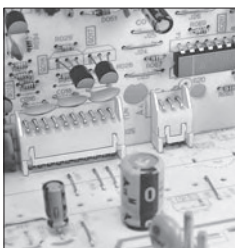


Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
4	B4P-MQ-C	6.0	10.8	500
5	B5P-MQ-C	8.0	12.8	500
6	B6P-MQ-C	10.0	14.8	500
7	B7P-MQ-C	12.0	16.8	250
8	B8P-MQ-C	14.0	18.8	250
9	B9P-MQ-C	16.0	20.8	250
10	B10P-MQ-C	18.0	22.8	250
12	B12P-MQ-C	22.0	26.8	200

Material and Finish

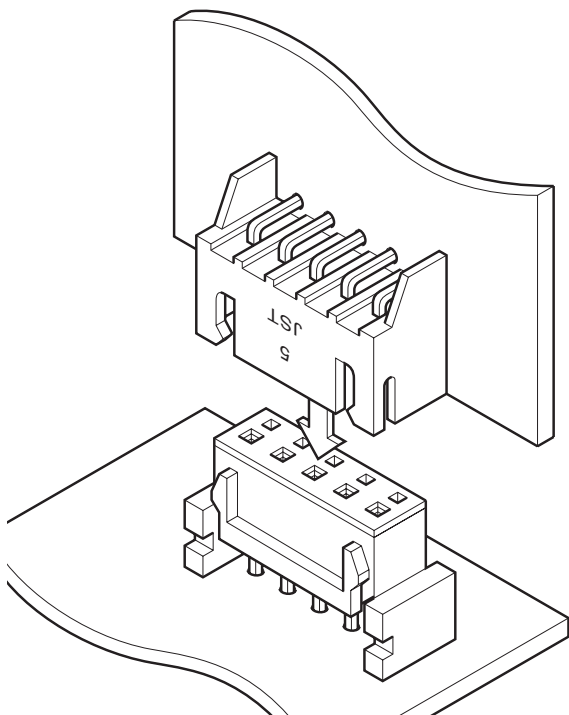
Pin: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0

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



JQ CONNECTOR

2.5mm pitch/Board-to-board connectors



This 2.5mm pitch connector is used to interconnect printed circuit boards. It easily resists distortion during mating, thus ensuring reliable contact, even under adverse conditions.

- High contact pressure
- Box-shaped shroud
- Secure locking on printed circuit boards
- Vertical, horizontal and parallel mounting
- Interchangeability

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

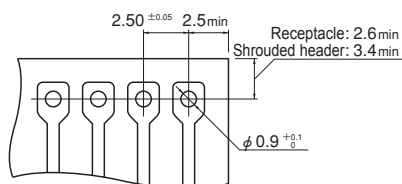
Recognized E60389

Certified LR20812

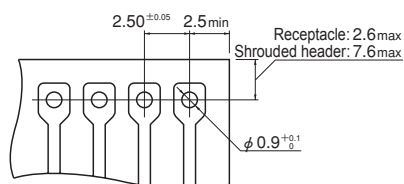
R75085

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

Top entry type



Side entry type



Combinations		Receptacle	
		Top entry type	Side entry type
Shrouded header	Top entry type B (JB-XH-A)		
	Side entry type S (JB-XH-A-1)		

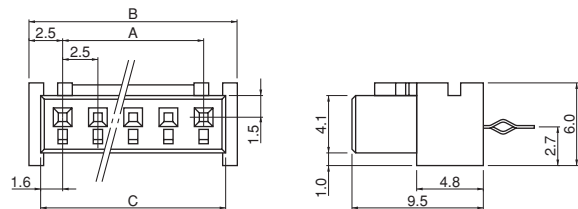
Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

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.

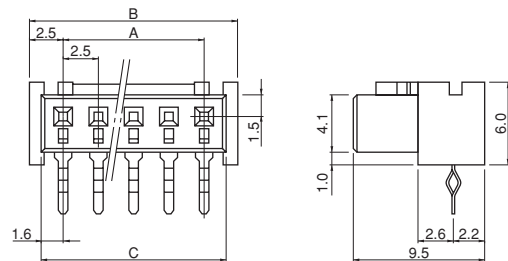
JQ CONNECTOR

Receptacle

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)			Q'ty / box	
	Top entry type	Side entry type	A	B	C	Top entry type	Side entry type
3	03JQ-BT	03JQ-ST	5.0	10.0	8.2	500	500
4	04JQ-BT	04JQ-ST	7.5	12.5	10.7	500	500
5	05JQ-BT	05JQ-ST	10.0	15.0	13.2	500	500
6	06JQ-BT	06JQ-ST	12.5	17.5	15.7	500	500
7	07JQ-BT	07JQ-ST	15.0	20.0	18.2	250	250
8	08JQ-BT	08JQ-ST	17.5	22.5	20.7	200	250
9	09JQ-BT	09JQ-ST	20.0	25.0	23.2	200	250
10	10JQ-BT	10JQ-ST	22.5	27.5	25.7	250	250
11	11JQ-BT	11JQ-ST	25.0	30.0	28.2	250	250
12	12JQ-BT	12JQ-ST	27.5	32.5	30.7	200	200
13	13JQ-BT	13JQ-ST	30.0	35.0	33.2	200	200
15	15JQ-BT	15JQ-ST	35.0	40.0	38.2	100	100

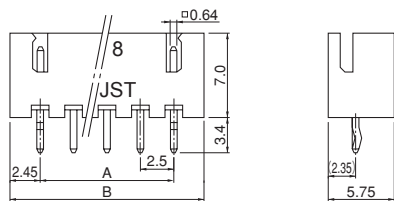
Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, natural

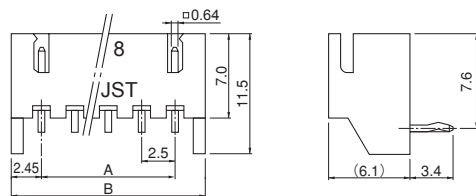
RoHS compliance

Shrouded header

Top entry type



Side entry type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
3	B3B-XH-A	S3B-XH-A-1	5.0	9.9	1,000	1,000
4	B4B-XH-A	S4B-XH-A-1	7.5	12.4	500	500
5	B5B-XH-A	S5B-XH-A-1	10.0	14.9	500	500
6	B6B-XH-A	S6B-XH-A-1	12.5	17.4	500	500
7	B7B-XH-A	S7B-XH-A-1	15.0	19.9	500	250
8	B8B-XH-A	S8B-XH-A-1	17.5	22.4	500	250
9	B9B-XH-A	S9B-XH-A-1	20.0	24.9	500	250
10	B10B-XH-A	S10B-XH-A-1	22.5	27.4	250	250
11	B11B-XH-A	S11B-XH-A-1	25.0	29.9	250	250
12	B12B-XH-A	S12B-XH-A-1	27.5	32.4	250	200
13	B13B-XH-A	S13B-XH-A-1	30.0	34.9	250	200
14	B14B-XH-A	S14B-XH-A-1	32.5	37.4	250	200
15	B15B-XH-A	S15B-XH-A-1	35.0	39.9	250	200

Material and Finish

Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, natural (white)

RoHS compliance

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

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

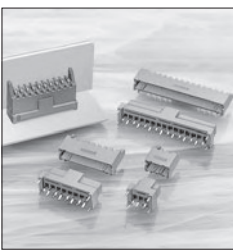
Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de



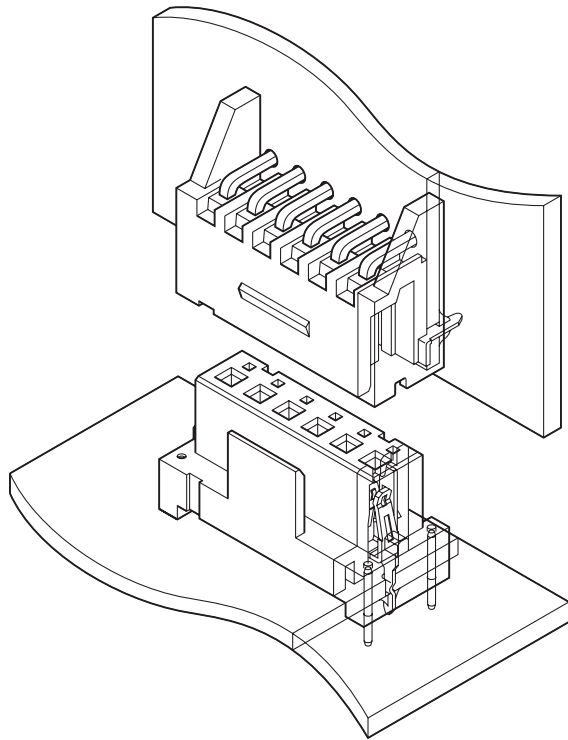
WERNER
WIRTH

PROJECT | CONNECT | PROTECT



JL CONNECTOR

2.5mm pitch/Board-to-board connectors



The JL connector is designed for board-to-board connection in electronic equipment requiring high-density mounting and unitization. This connector is highly resistant to equipment vibration and shock.

- **High contact pressure**
- **Housing lock assures good connection even after severe shock & vibration**
- **Reinforcing pins increase PCB mounting durability**
- **Polarized, fully shrouded header aligns the connector halves before their pins make contact**

Specifications

- Current rating: 3A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,000V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

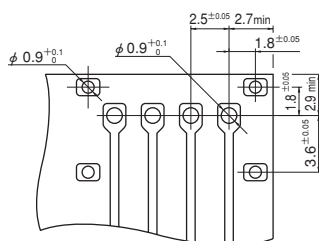
Standards

Ⓜ Recognized E60389

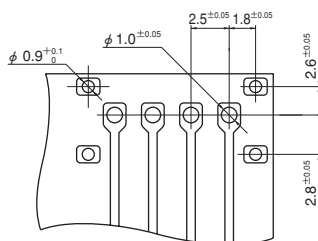
Ⓢ Certified LR20812

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

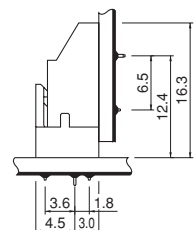
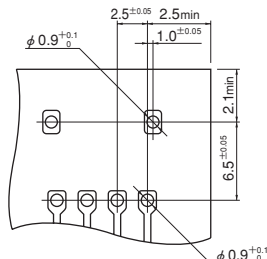
Receptacle



Receptacle on radial-tape



Shrouded header

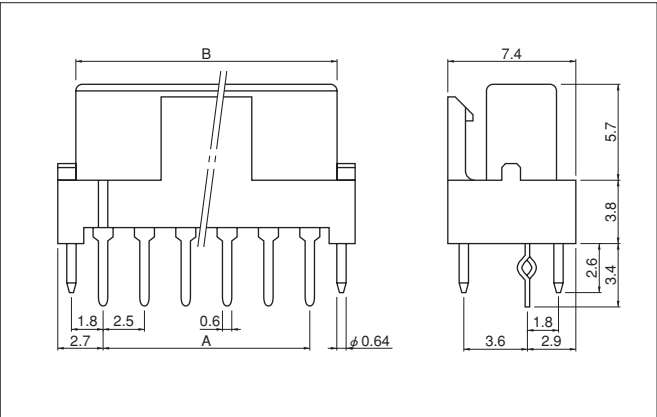


Note: 1. Tolerances are non-cumulative: ± 0.05 mm for all centers.

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.

JL CONNECTOR

Receptacle



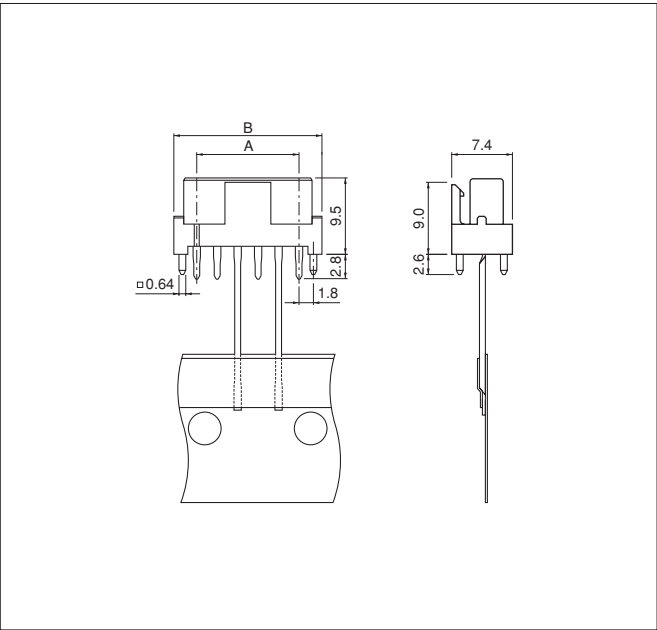
Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
3	03JL-BT-E	5.0	8.2	250
4	04JL-BT-E	7.5	10.7	200
5	05JL-BT-E	10.0	13.2	200
6	06JL-BT-E	12.5	15.7	200
7	07JL-BT-E	15.0	18.2	200
8	08JL-BT-E	17.5	20.7	100
9	09JL-BT-E	20.0	23.2	100
10	10JL-BT-E	22.5	25.7	100
11	11JL-BT-E	25.0	28.2	100
12	12JL-BT-E	27.5	30.7	100
13	13JL-BT-E	30.0	33.2	100
15	15JL-BT-E	35.0	38.2	50

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0, blue
Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

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

Receptacle on radial-tape



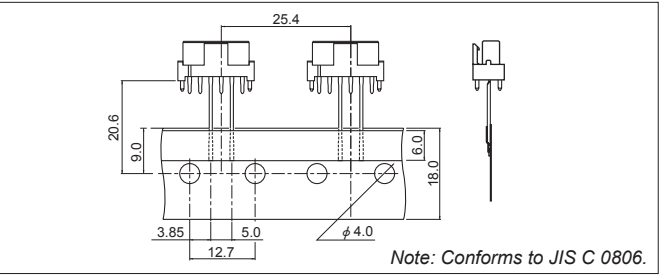
Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	05JL-BT-M-T	10.0	15.4	400
6	06JL-BT-M-T	12.5	17.9	400
7	07JL-BT-M-T	15.0	20.4	400
8	08JL-BT-M-T	17.5	22.9	400

Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0
Reinforcing pins: Brass, copper-undercoated, tin-plated (reflow treatment)

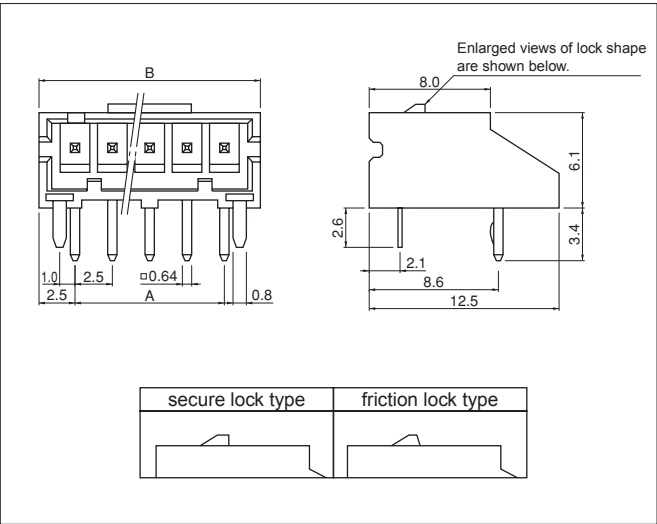
RoHS compliance This product displays (LF)(SN) on a label.

Taping Specifications



Note: Conforms to JIS C 0806.

Shrouded header



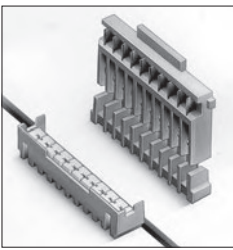
secure lock type	friction lock type

Circuits	Model No.		Dimensions (mm)		Q'ty/box
	secure lock type	friction lock type	A	B	
3	S3B-JL-R	S3B-JL-F-E	5.0	10.0	250
4	S4B-JL-R	S4B-JL-F-E	7.5	12.5	200
5	S5B-JL-R	S5B-JL-F-E	10.0	15.0	200
6	S6B-JL-R	S6B-JL-F-E	12.5	17.5	200
7	S7B-JL-R	S7B-JL-F-E	15.0	20.0	200
8	S8B-JL-R	S8B-JL-F-E	17.5	22.5	100
9	S9B-JL-R	S9B-JL-F-E	20.0	25.0	100
10	S10B-JL-R	S10B-JL-F-E	22.5	27.5	100
11	S11B-JL-R	S11B-JL-F-E	25.0	30.0	100
12	S12B-JL-R	S12B-JL-F-E	27.5	32.5	100
13	S13B-JL-R	S13B-JL-F-E	30.0	35.0	100
15	S15B-JL-R	S15B-JL-F-E	35.0	40.0	100

Material and Finish

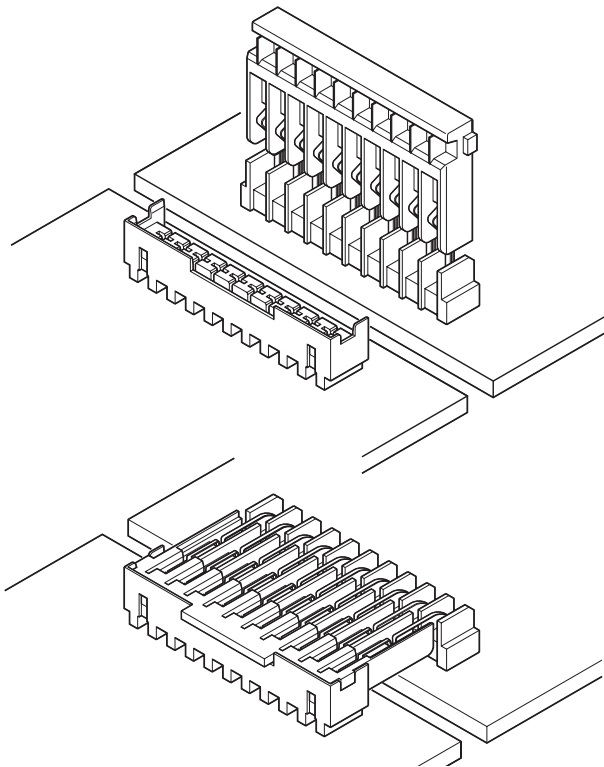
Post: Brass, copper-undercoated, tin-plated (reflow treatment)
Wafer: PA 66, UL94V-0, red (secure lock type), blue (friction lock type)
Reinforcing pins: Brass, tin-plated (reflow treatment)

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



2.5FJ CONNECTOR

2.5mm pitch/Board-to-board connectors



The 2.5FJ connector is a 2.5mm pitch board-to-board connector. The connector halves can be mated after the installation of the printed circuit boards in their enclosure.

- **Flexible connection absorbs circuit board misalignment**
- **Provides a low profile mount and allows connection after mounting**
- **Assures a reliable connection**

Specifications

- Current rating: 1.0A 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/60m Ω max.
After environmental testing/80m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 500V AC/minute
- Applicable PC board thickness: 1.6mm
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

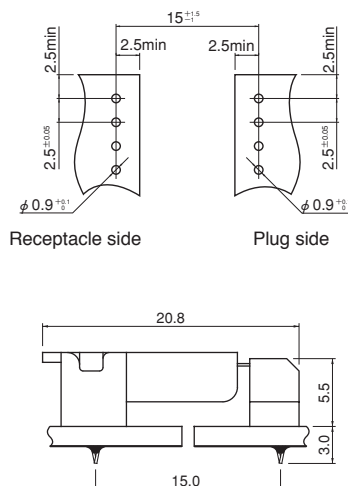
Standards

Recognized E60389

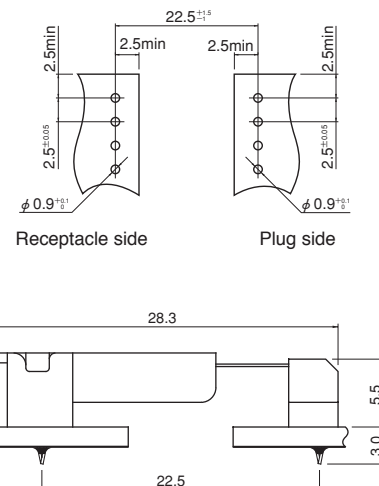
Certified LR20812

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

Short type



Long type



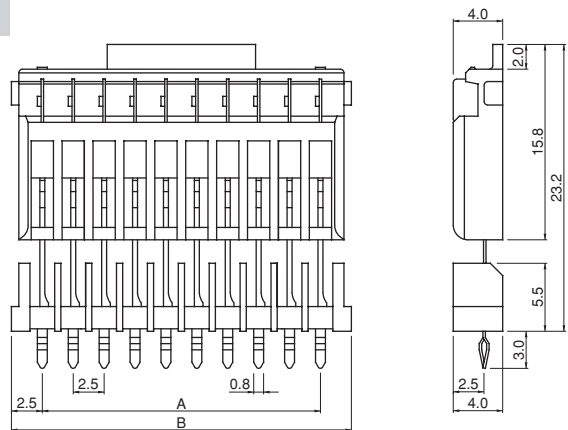
Note: 1. Tolerances are non-cumulative: $\pm 0.05\text{mm}$ for all centers.

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.

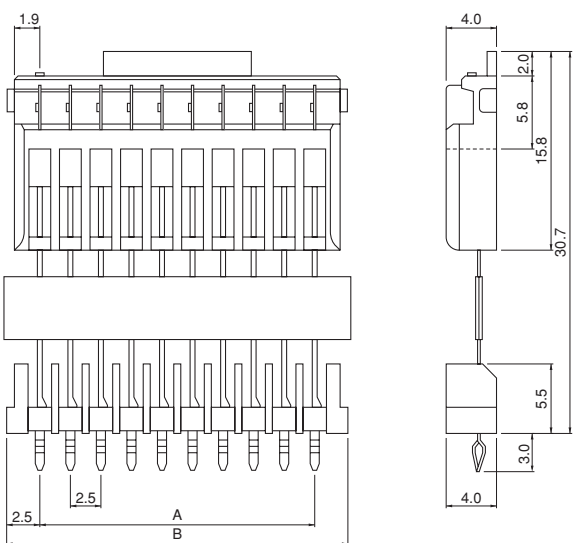
2.5FJ CONNECTOR

Plug

Short type



Long type



Circuits	Model No.		Dimensions (mm)		Q'ty / box	
	Short type	Long type	A	B	Short type	Long type
5	05TM-2.5FJ	—	10.0	15.0	200	—
10	10TM-2.5FJ	10PN-2.5FJ	22.5	27.5	100	100

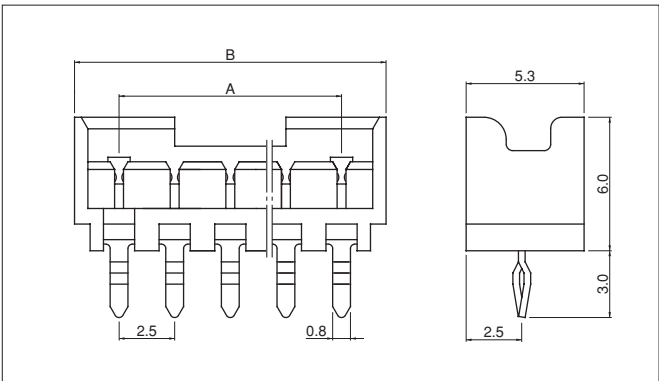
Material and Finish

Contact: Phosphor bronze, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0,
Short type —white (natural)
Long type —white (natural)

RoHS compliance

Note: 10PN-2.5FJ is not UL/CSA approved.

Receptacle



Circuits	Model No.	Dimensions (mm)		Q'ty/box
		A	B	
5	05R-2.5FJ	10.0	15.0	200
10	10R-2.5FJ	22.5	27.5	200

Material and Finish

Contact: Phosphor bronze, copper-undercoated, tin-plated (reflow treatment)
Housing: PA 66, UL94V-0

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

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de



1-D

Card Edge Connectors

TABLE OF CONTENTS

• 0.8mm pitch	DM-144P CONNECTOR172
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Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de



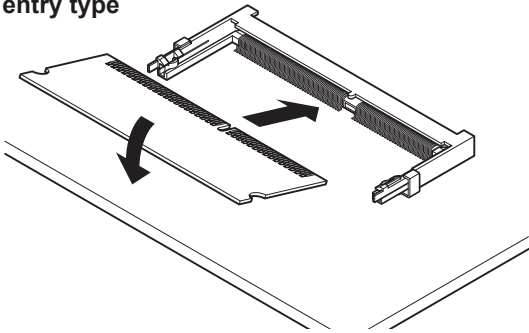
PROJECT | CONNECT | PROTECT



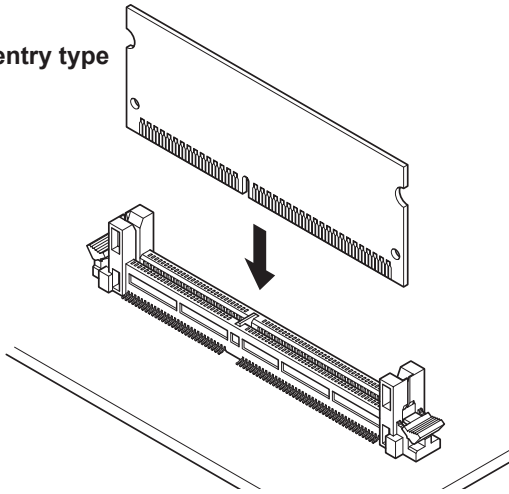
DM-144P CONNECTOR

0.8mm pitch/Socket for S.O.DIMM

Side entry type



Top entry type



Sockets for the 8Byte S.O.DIMM which is standardized by the JEDEC.

- **Extremely small space for mounting on the board**

Specifications

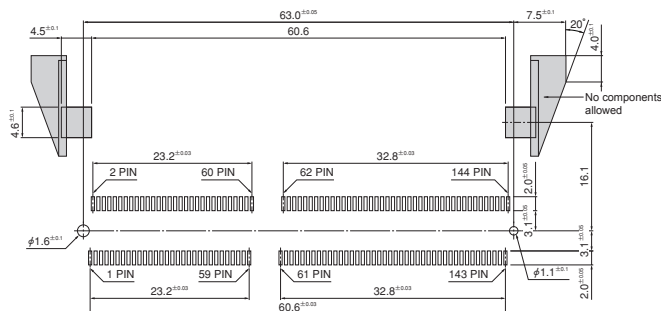
- Current rating: 0.5A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/30m Ω max.
After environmental testing/50m Ω max.
- Insulation resistance: 250M Ω min.
- Withstanding voltage: 250V AC/minute
- * RoHS compliant products are published.
- * Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- * Contact JST for details.

Standards

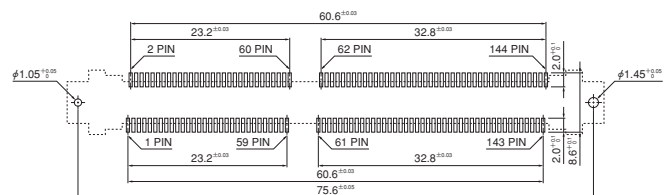
Recognized E60389

PC board layout (viewed from component side)

Side entry type



Top entry type



Note: 1. Tolerances are non-cumulative: $\pm 0.03\text{mm}$ for all centers.
2. The dimensions above should serve as a guideline. Contact JST for details.

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de

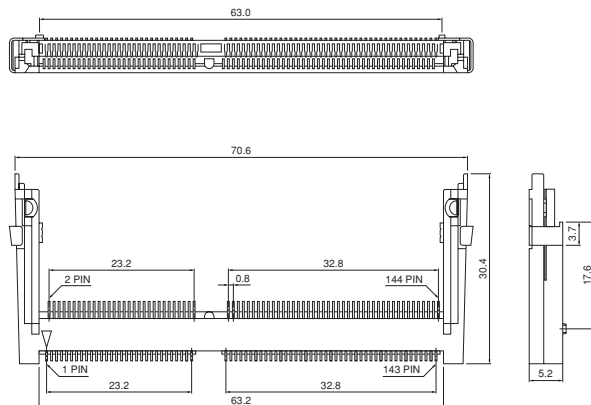


**WERNER
WIRTH**

PROJECT | CONNECT | PROTECT

Connector

Side entry type



Model No.

DM-3B1-N1210

Q'ty / box

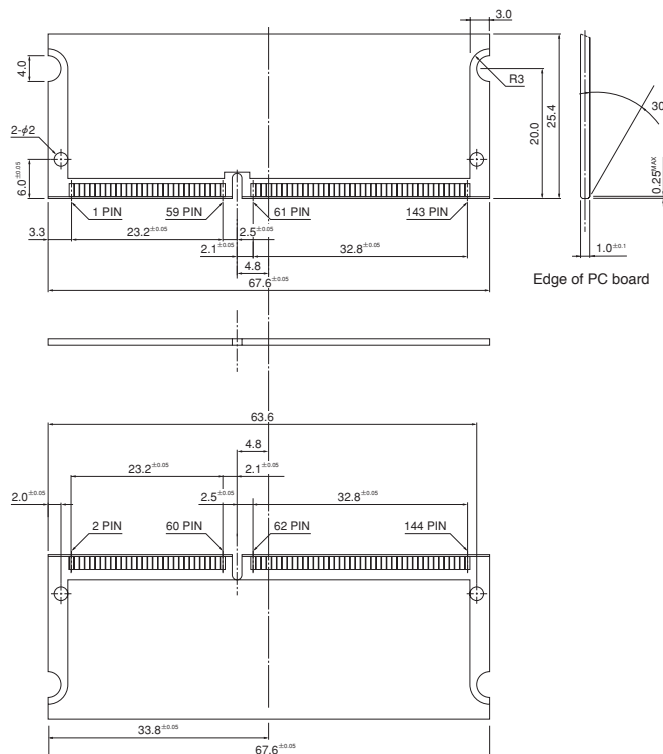
320

Material and Finish

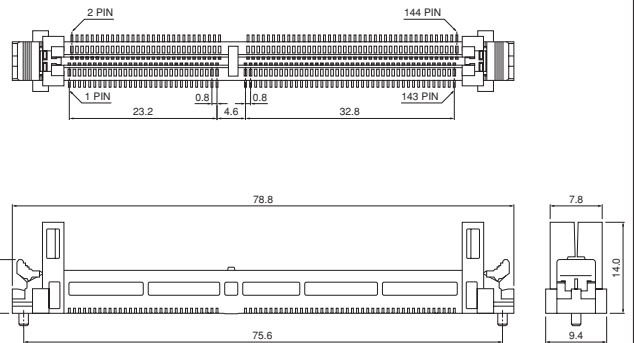
Contact: Copper alloy, nickel-undercoated, Mating part; gold-plated
Solder tail; tin-plated (reflow treatment)
Housing: Heat resisting resin, UL94V-0
Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

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

Applicable PC board layout (for reference)



Top entry type



Model No.

DM-3D4-B3200

Q'ty / box

224

Material and Finish

Contact: Copper alloy, nickel-undercoated, gold-plated
Housing: Heat resisting resin, UL94V-0
Ejector: Heat resisting resin, UL94V-0

RoHS compliance

Werner Wirth GmbH

Hellgrundweg 111
22525 Hamburg
Germany

Tel +49 (0)40 752 491-0
Fax +49 (0)40 752 491-91

info@wernerwirth.de
www.wernerwirth.de



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