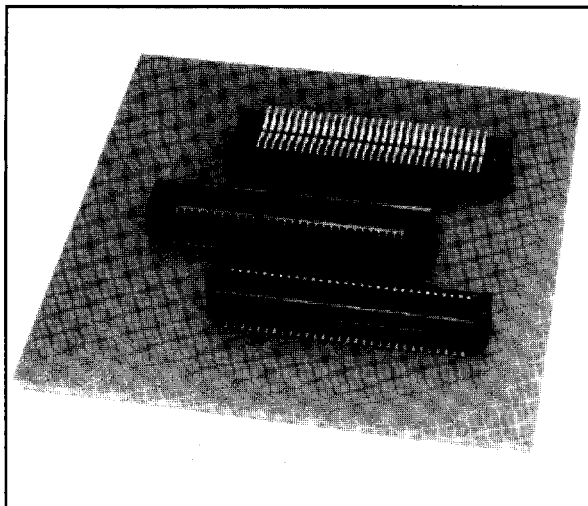


KX14/15 SERIES CONNECTORS

0.8mm (.031") Contact Spacing, PCB-to-PCB SMT Connectors



FEATURES

- 0.8mm (.031") contact spacing
- Straight receptacle (KX14) and right angle/straight plug (KX15) for paralleled and vertical PCB connections
- 4 to 18mm (.157 to .709") stacking heights available in 1mm (.039") increments
- Polarization key prevents mismatching
- Resistant to vibration and twisting
- Available in embossed tape for automatic mounting

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The KX14/15 Series connectors are low profile, SMT type connectors for PCB-to-PCB applications. Contact spacing is 0.8mm (.031"). The receptacle (KX14) and plug (KX15) combination are a variable in stacking heights of 4 to 18mm (.157 to .709") in increments of 1mm (.039").

These connectors are ideal for use in the personal computer industry where space, weight and high density are critical factors.

GENERAL SPECIFICATIONS

Number of Contacts	20, 30, 40, 50, 60, 70, 80, 100, 120, 140, 160, 200 (See Note 1)
Contact Spacing	0.8mm (.031")
Current Rating	0.5 Amps
Dielectric Withstanding Voltage	500 VAC r.m.s. (for one minute)
Insulation Resistance	100 megohms min.
Contact Resistance	70 milliohms max.
Operating Temperature	-40°C to +85°C

Note 1: Please consult JAE for availability.

MATERIALS AND FINISHES

Description	Materials/Finishes
Insulator KX14 KX15	Glass-filled LCP/Black Glass-filled PPS/Black
Contact	Copper Alloy Connecting Area: 0.1µm (.000004") min. Gold Plating Over Nickel Terminal Area: Gold flash over Nickel or Tin-lead over Nickel
Hold Down	Copper Alloy/Tin-lead over Nickel
Hook Pin	Copper Alloy/Tin plating
Hexagon Nut	Brass/Nickel plating

Dimensions and specifications subject to change without notice.

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0.8mm (.031") Contact Spacing, PCB-to-PCB SMT Connectors

ORDERING INFORMATION

STRAIGHT

Series **KX** ****** **-** ****** ***** ***** ***** *****

Connector Type

14 – Receptacle
15 – Plug

No. of Contacts (See Note 1)

20, 30, 40, 50, 60, 70, 80
100, 120, 140, 160, 200

Polarization Key

K – With Polarization Key
N – Without Polarization Key

Stacking Height Code (See Note 2)

(Receptacle) 2, 5, 8, 11, 14
(Plug) 2, 3, 4

Mounting Type (See Table Below)

B, C, D, E, F

Contact Finish

Blank – Connecting Area: Gold plating 0.1µm
(.000004") min. over Nickel

Terminal Area: Gold Flash over Nickel

1 – Connecting Area: Gold plating 0.1µm (.000004") min.
over Nickel

Terminal Area: Tin-Lead over Nickel

Note 1: Please consult JAE for availability.

Note 2: Stacking Height = Stacking Height Code of KX14 &
Stacking Height Code of KX15.

Mounting Type for Straight

	Positioning Key	Hold Down	Flange	Hook Pin
B	○	—	—	—
C	○	—	○	○
D	○	○	○	—
E	○	—	○	—
F	—	○	○	—

RIGHT ANGLE

Series **KX** **15** **-** ****** ***** ***** ***** **(Blank)**

Connector Type

15 – Plug

No. of Contacts (See Note 1)

20, 30, 40, 50, 60, 70, 80
100, 120, 140, 160

Polarization Key

K – With Polarization Key
N – Without Polarization Key

Termination

L – Right Angle Type

Mounting Type (See Table Below)

D, F, J, N

Contact Finish

Blank – Connecting Area: Gold plating 0.1µm
(.000004") min. over Nickel

Terminal Area: Gold Flash over Nickel

Note 1: Please consult JAE for availability.

Mounting Type for Right Angle

	Positioning Key	Hold Down	Nut
D	○	○	—
F	—	○	—
J	○	—	—
N	○	—	○

Stacking Height (Parallel PCB to PCB connection)

		Plug			
Receptacle	Stacking Height Code	2	3	4	
	2	4 (.157)	5 (.197)	6 (.236)	
	5	7 (.276)	8 (.315)	9 (.354)	
	8	10 (.394)	11 (.433)	12 (.472)	
	11	13 (.512)	14 (.551)	15 (.591)	
	14	16 (.630)	17 (.669)	18 (.709)	

Dimensions in mm (inches).



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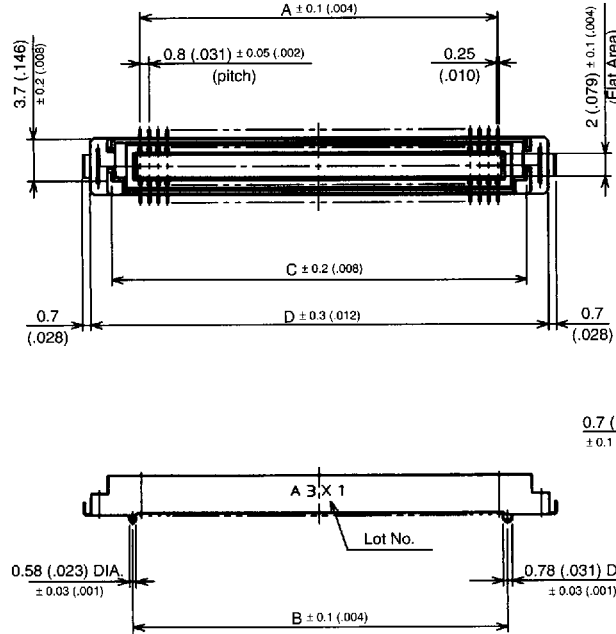
KX14/15 SERIES CONNECTORS

0.8mm (.031") Contact Spacing, PCB-to-PCB SMT Connectors

KX14 • STRAIGHT RECEPTACLE

Note 1: Shown below is mounting type D with polarization key.

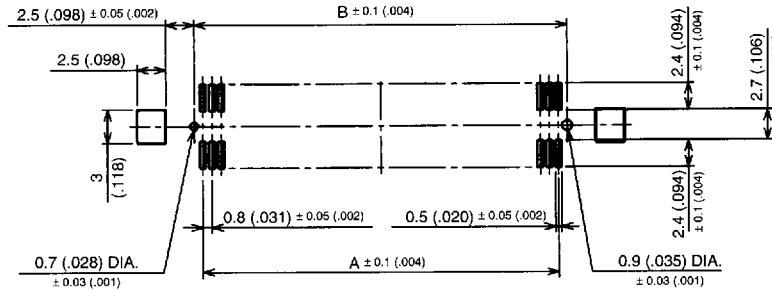
Note 2: Mounting side configuration for 200 contacts is different. Please consult JAE.



Dimension X and Y

Stacking Height Code	X	Y
2	0.75 (.030)	3.55 (.140)
5	3.75 (.148)	6.55 (.258)
8	6.75 (.266)	9.55 (.376)
11	9.75 (.384)	12.55 (.494)
14	12.75 (.502)	15.55 (.612)

Applicable PCB Dimension (Ref.)



No. of Contacts	Part Number (Note 1)		A	B	C	D
	With Polarization Key	Without Polarization Key				
20	KX14- 20K□*+	KX14- 20N□*+	7.2 (.283)	8.7 (.342)	12.3 (.484)	16 (.630)
30	KX14- 30K□*+	KX14- 30N□*+	11.2 (.441)	12.7 (.500)	16.3 (.642)	20 (.787)
40	KX14- 40K□*+	KX14- 40N□*+	15.2 (.598)	16.7 (.657)	20.3 (.799)	24 (.945)
50	KX14- 50K□*+	KX14- 50N□*+	19.2 (.756)	20.7 (.815)	24.3 (.957)	28 (1.102)
60	KX14- 60K□*+	KX14- 60N□*+	23.2 (.913)	24.7 (.972)	28.3 (1.114)	32 (1.260)
70	KX14- 70K□*+	KX14- 70N□*+	27.2 (1.071)	28.7 (1.130)	32.3 (1.272)	36 (1.417)
80	KX14- 80K□*+	KX14- 80N□*+	31.2 (1.228)	32.7 (1.287)	36.3 (1.429)	40 (1.575)
100	KX14- 100K□*+	KX14- 100N□*+	39.2 (1.543)	40.7 (1.602)	44.3 (1.744)	48 (1.890)
120	KX14- 120K□*+	KX14- 120N□*+	47.2 (1.858)	48.7 (1.917)	52.3 (2.059)	56 (2.205)
140	KX14- 140K□*+	KX14- 140N□*+	55.2 (2.173)	56.7 (2.232)	60.3 (2.374)	64 (2.520)
160	KX14- 160K□*+	KX14- 160N□*+	63.2 (2.488)	64.7 (2.547)	68.3 (2.689)	72 (2.835)
200	KX14- 200K□*+	KX14- 200N□*+	80.8 (3.181)	82.3 (3.240)	85.85 (3.380)	89.6 (3.528)

Note 1: □ – Add stacking height code 2, 5, 8, 11 or 14.

+ – Add contact finish code 1 or blank.

Note 2: Please consult JAE for availability.

* – Add mounting type code B, C, D, E or F.

Refer to page 46 for code details.

Dimensions in mm (inches).

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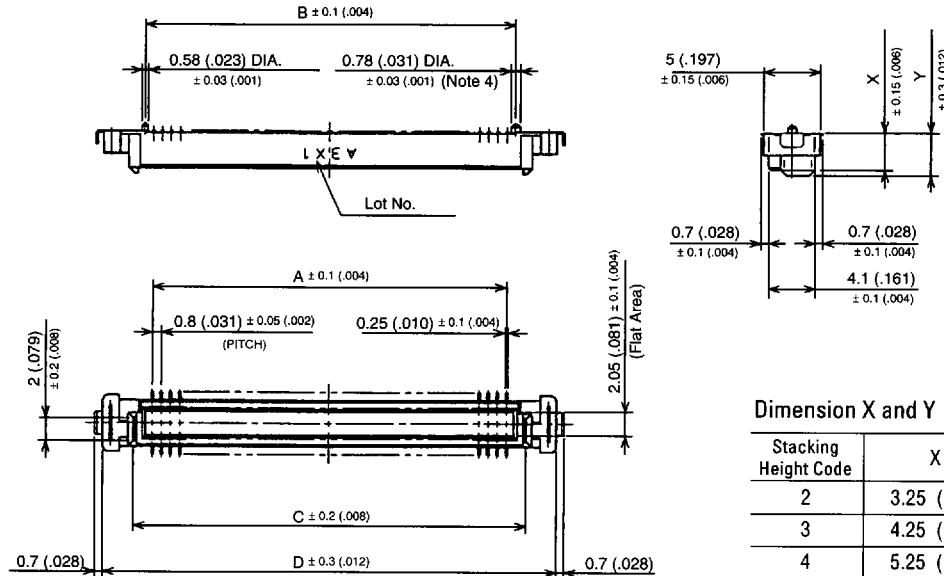
KX14/15 SERIES CONNECTORS

0.8mm (.031") Contact Spacing, PCB-to-PCB SMT Connectors

KX15 • STRAIGHT PLUG

Note 1: Shown below is mounting type D with polarization key.

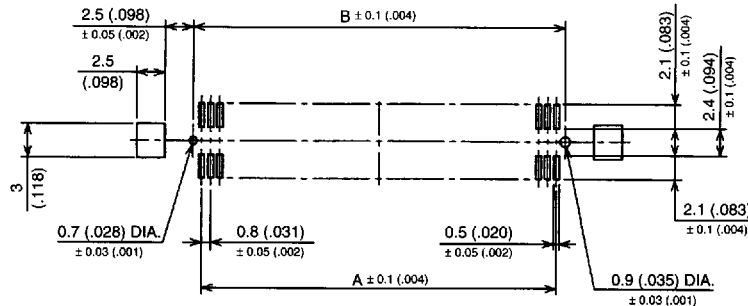
Note 2: Mounting side configuration for 200 contacts is different. Please consult JAE.



Dimension X and Y

Stacking Height Code	X	Y
2	3.25 (.128)	3.75 (.148)
3	4.25 (.167)	4.75 (.187)
4	5.25 (.207)	5.75 (.226)

Applicable PCB Dimension (Ref.)



No. of Contacts	Part Number (Note 1)		A	B	C	D
	With Polarization Key	Without Polarization Key				
20	KX15- 20K□*+	KX15- 20N□*+	7.2 (.283)	8.7 (.342)	10.6 (.417)	16 (.630)
30	KX15- 30K□*+	KX15- 30N□*+	11.2 (.441)	12.7 (.500)	14.6 (.575)	20 (.787)
40	KX15- 40K□*+	KX15- 40N□*+	15.2 (.598)	16.7 (.657)	18.6 (.732)	24 (.945)
50	KX15- 50K□*+	KX15- 50N□*+	19.2 (.756)	20.7 (.815)	22.6 (.890)	28 (1.102)
60	KX15- 60K□*+	KX15- 60N□*+	23.2 (.913)	24.7 (.972)	26.6 (1.047)	32 (1.260)
70	KX15- 70K□*+	KX15- 70N□*+	27.2 (1.071)	28.7 (1.130)	30.6 (1.205)	36 (1.417)
80	KX15- 80K□*+	KX15- 80N□*+	31.2 (1.228)	32.7 (1.287)	34.6 (1.362)	40 (1.575)
100	KX15- 100K□*+	KX15- 100N□*+	39.2 (1.543)	40.7 (1.602)	42.6 (1.677)	48 (1.890)
120	KX15- 120K□*+	KX15- 120N□*+	47.2 (1.858)	48.7 (1.917)	50.6 (1.992)	56 (2.205)
140	KX15- 140K□*+	KX15- 140N□*+	55.2 (2.173)	56.7 (2.232)	58.6 (2.307)	64 (2.520)
160	KX15- 160K□*+	KX15- 160N□*+	63.2 (2.488)	64.7 (2.547)	66.6 (2.622)	72 (2.835)
200	KX15- 200K□*+	KX15- 200N□*+	80.8 (3.181)	82.3 (3.240)	84.2 (3.315)	89.6 (3.528)

Note 1: □ — Add stacking height code 2, 3, or 4.

+ — Add contact finish code 1 or blank.

Note 2: Please consult JAE for availability.

* — Add mounting type code B, C, D, E or F.

Refer to page 46 for code details.

Dimensions in mm (inches).



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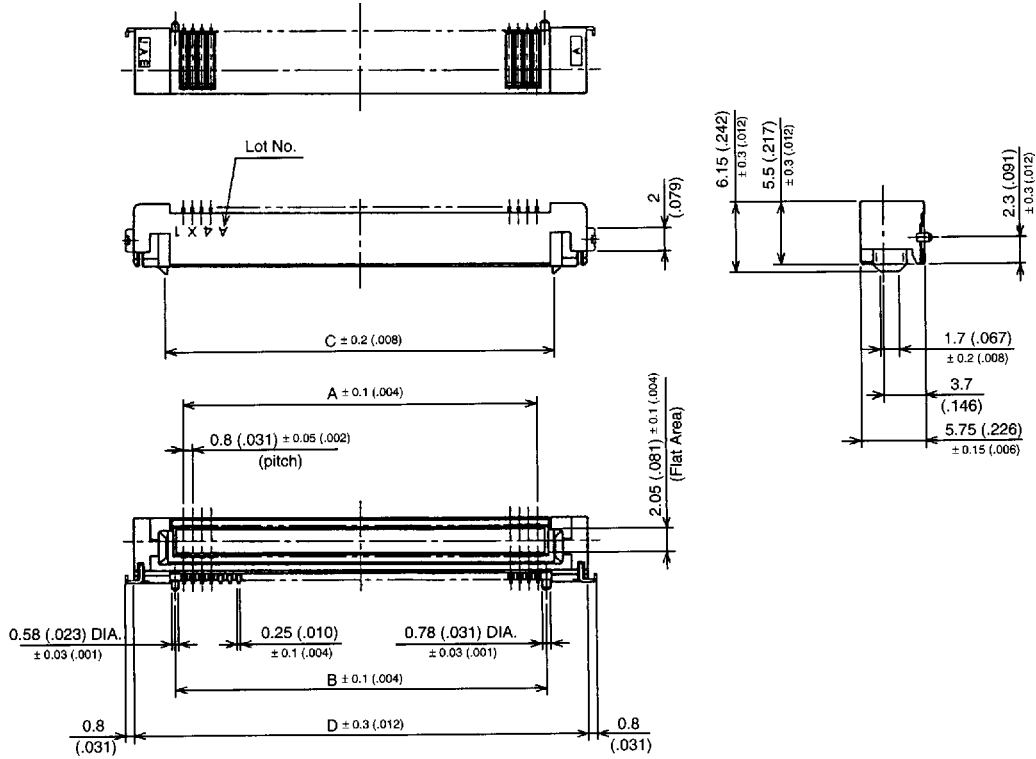
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KX14/15 SERIES CONNECTORS

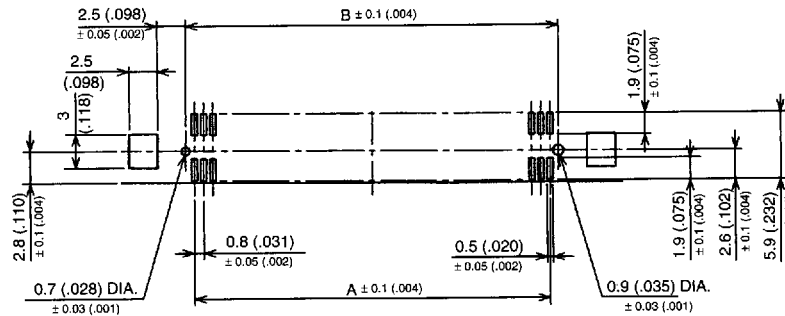
0.8mm (.031") Contact Spacing, PCB-to-PCB SMT Connectors

KX15 • RIGHT ANGLE PLUG

Note: Shown below is mounting type D with polarization key.



Applicable PCB Dimension (Ref.)



No. of Contacts	Part Number (Note 1)		A	B	C	D
	With Polarization Key	Without Polarization Key				
20	KX15- 20KL*	KX15- 20NL*	7.2 (.283)	8.7 (.342)	10.3 (.406)	16 (.630)
30	KX15- 30KL*	KX15- 30NL*	11.2 (.441)	12.7 (.500)	14.3 (.563)	20 (.787)
40	KX15- 40KL*	KX15- 40NL*	15.2 (.598)	16.7 (.657)	18.3 (.720)	24 (.945)
50	KX15- 50KL*	KX15- 50NL*	19.2 (.756)	20.7 (.815)	22.3 (.878)	28 (1.102)
60	KX15- 60KL*	KX15- 60NL*	23.2 (.913)	24.7 (.972)	26.3 (1.035)	32 (1.260)
70	KX15- 70KL*	KX15- 70NL*	27.2 (1.071)	28.7 (1.130)	30.3 (1.193)	36 (1.417)
80	KX15- 80KL*	KX15- 80NL*	31.2 (1.228)	32.7 (1.287)	34.3 (1.350)	40 (1.575)
100	KX15-100KL*	KX15-100NL*	39.2 (1.543)	40.7 (1.602)	42.3 (1.665)	48 (1.890)
120	KX15-120KL*	KX15-120NL*	47.2 (1.858)	48.7 (1.917)	50.3 (1.980)	56 (2.205)
140	KX15-140KL*	KX15-140NL*	55.2 (2.173)	56.7 (2.232)	58.3 (2.295)	64 (2.520)
160	KX15-160KL*	KX15-160NL*	63.2 (2.488)	64.7 (2.547)	66.3 (2.610)	72 (2.835)

Note 1: * - Add mounting type code D, F, J or N. Refer to page 46 for code details.

Note 2: Please consult JAE for availability.

Dimensions in mm (inches).

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