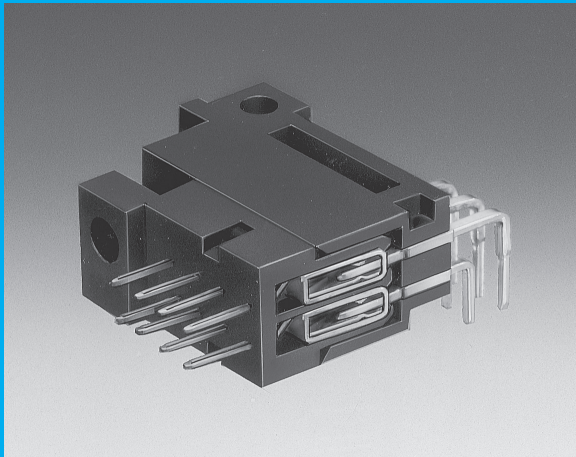


8300 / 8400 SERIES

2.54mm PITCH CONNECTOR / CONFORMS TO STANDARD DIN

RoHS
Compliant



FEATURES

- ▶ A total price advantage over card edge connector.
- ▶ Mating is easy and reliable due to unique contact design.
- ▶ Numerous variations are available.
- ▶ Horizontal, Vertical and Stacked mating combinations.
- ▶ Conforms to DIN 41612 standard and IEC 603-2 standard.
- ▶ The insulator material of PBT(polybutylene terephthalate) resin has superior chemical resistance characteristics.

ORDER CODE

8 0 - - 28 - - N

① ② ③ ④ ⑤ ⑥

*Please order in multiples of the quantity per package.

- ① **[Type]** Receptacle **8300** : Standard DIN **8400** : Inverse DIN **8330** : Standard DIN (VA product) **8440** : Inverse DIN (VA Product), Flush mounting
- ② **[Number of contacts]** (8300) **032** : 32pin **048** : 48pin **050** : 50pin **064** : 64pin **096** : 96pin (8400) **064** : 64pin **096** : 96pin (8330 / 8440) **032** : 32pin **044** : 44pin **048** : 48pin **050** : 50pin **064** : 64pin **090** : 90pin **096** : 096pin **100** : 100pin
- ③ **[Contact]** (8300) **280** : straight, Wire wrap **281** : straight, DIP solder (8400) **282** : Right angle, DIP solder (8330) **283** : Straight, DIP solder (8440) **284** : Right angle, DIP solder
- ④ **[Gold plating thickness]** (8300 / 8400) **No code** : 0.2 μ m (Standard) (8330 / 8440) **No code** : 0.05 μ m (Standard) **F** : 0.2 μ m (Upon request) **A** : 0.3 μ m (Upon request)
- ⑤ **[Option]** (8330) **H** : With hooks
- ⑥ **[RoHS]** **N** : RoHS compliant

If you would like semi-customized products, please contact your local KEL sales office.

ORDER CODE

8 1 - - 29 - - N

① ② ③ ④ ⑤ ⑥

*Please order in multiples of the quantity per package.

- ① **[Type]** Plug **8301** : Standard DIN **8311** : Standard DIN, Flush mounting **8331** : Standard DIN (VA product) **8341** : Standard DIN, Flush mounting (VA product) **8431** : Inverse DIN (VA Product)
- ② **[Number of contacts]** (8301 / 8311) **032** : 32pin **048** : 48pin **050** : 50pin **064** : 64pin **096** : 96pin (8331 / 8341 / 8431) **032** : 32pin **044** : 44pin **048** : 48pin **050** : 50pin **064** : 64pin **090** : 90pin **096** : 096pin **100** : 100pin
- ③ **[Contact]** (8301 / 8311) **290** : Right angle, Dip solder (8331 / 8341) **294** : Right angle, DIP solder (8431) **294** : Straight, DIP solder
- ④ **[Gold plating thickness]** (8301 / 8311) **No code** : 0.2 μ m (Standard) (8331 / 8341 / 8431) **No code** : 0.05 μ m (Standard) **F** : 0.2 μ m (Upon request) **A** : 0.3 μ m (Upon request)
- ⑤ **[Option]** (8331 / 8341) **H** : With hooks
- ⑥ **[RoHS]** **N** : RoHS compliant

If you would like semi-customized products, please contact your local KEL sales office.

SPECIFICATIONS

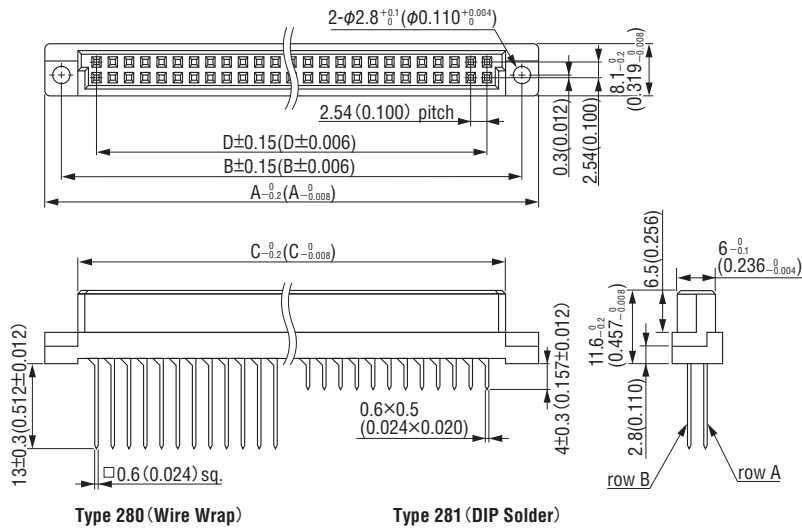
Material and plating		Electrical characteristics	
Insulator material	Glass-filled PBT (UL94V-0) [8400 64pin] Glass-filled PET (UL94V-0)	Rated current	[8300/8301/8311/8400/8401] 2A per contact [8330/8331/8341/8431/8440] 1A per contact
		Contact resistance	20mΩ max.
Contact material	Copper alloy	Dielectric withstanding voltage	1000V AC for 1 minute.
		Insulation resistance	10 ⁹ M min. 500V DC
		Insertion force	1.18N × Number of contacts max. /pair
		Withdrawal force	0.15N × Number of contacts min. /pair
Contact plating	(Contact area) Gold over Nickel (Terminal area) Tin copper over Nickel	Individual withdrawal force	0.15N min. (with 0.56mm thickness steel gage)
		Contact retention	20N min.
		Operating temperature	-55°C to +85°C

Product List

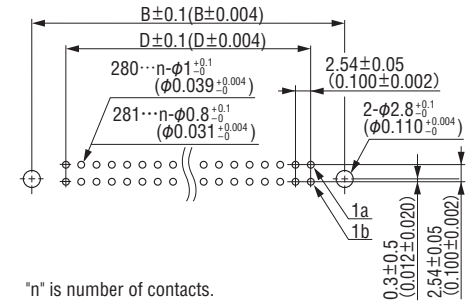
Pitch	type	Plug/ Receptacle	Contact tail style	Termination	Mounting style	Number of rows	Number of contacts	Series name
2.54mm (100mil)	DIN/IEC standard (Standard type)	Plug	Right angle	DIP solder	Standard	2	32、50、64	8301
						3	48、96	
					Flush mounting	2	32、44、50、64、90、100	8331 (VA TYPE)
						3	48、96	
		Receptacle	Straight	DIP solder Wire wrap	Standard	2	32、50、64	8311
						3	48、96	
				DIP solder	Standard	2	32、44、50、64、90、100	8341 (VA TYPE)
						3	48、96	
	DIN/IEC standard (Inverse type)	Plug	Straight	DIP solder	—	2	32、44、50、64、90、100	8300
						3	48、96	
		Receptacle	Right angle	DIP solder	Standard	2	64	8330 (VA TYPE)
						3	96	
					Flush mounting	2	32、44、50、64、90、100	8400
						3	96	
						2	32、44、50、64、90、100	8431 (VA TYPE)
						3	48、96	

8300--280/281-N (Receptacle, Straight, DIP Solder/Wire Wrap, 2 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



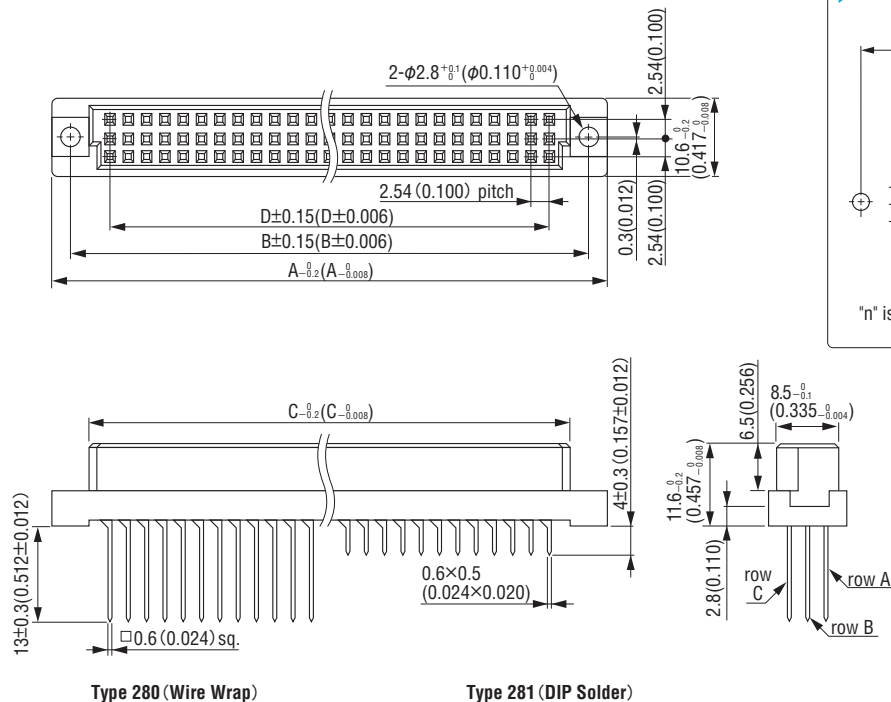
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
32	8300-032-280/281-N	54.36 (2.140)	49.36 (1.943)	44.36 (1.746)	38.10 (1.500)	160
						320
50	8300-050-280/281-N	77.22 (3.040)	72.22 (2.843)	67.22 (2.646)	60.96 (2.400)	110
						230
64	8300-064-280/281-N	95.00 (3.740)	90.00 (3.543)	85.00 (3.346)	78.74 (3.100)	90
						180

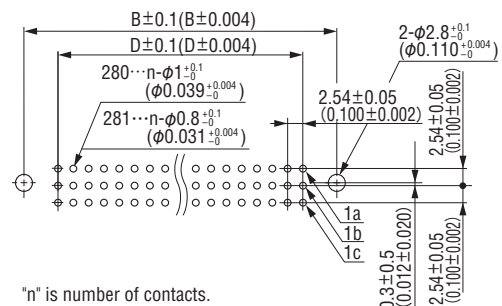
Packaging style
Other

8300--280/281-N (Receptacle, Straight, DIP Solder/Wire Wrap, 3 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



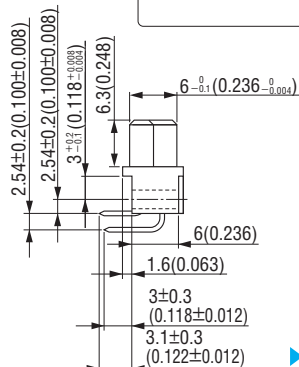
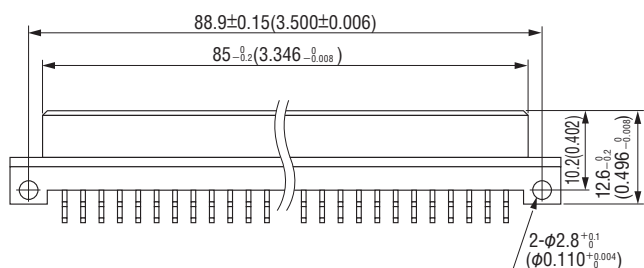
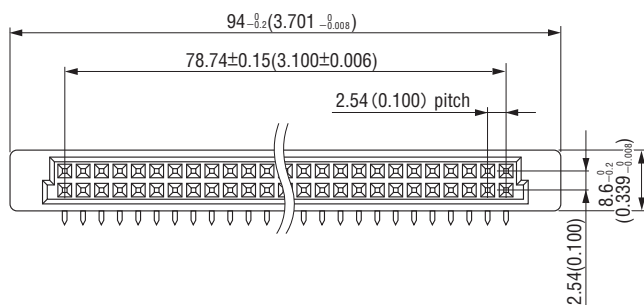
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
48	8300-048-280/281-N	54.36 (2.140)	49.36 (1.943)	44.36 (1.746)	38.10 (1.500)	120
						240
96	8300-096-280/281-N	95.00 (3.740)	90.00 (3.543)	85.00 (3.346)	78.74 (3.100)	70
						140

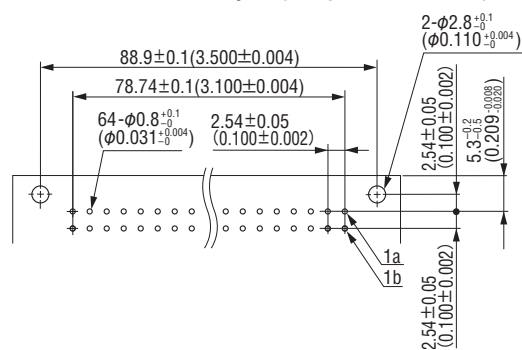
Packaging style
Other

8400-064-282-N (Receptacle, Right angle, 2 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



Packaging style

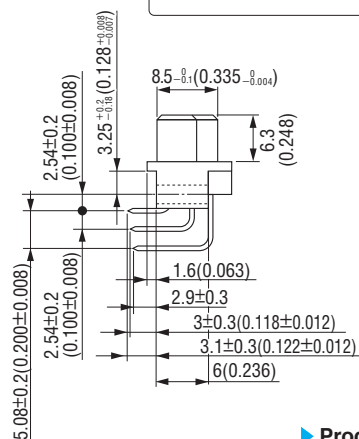
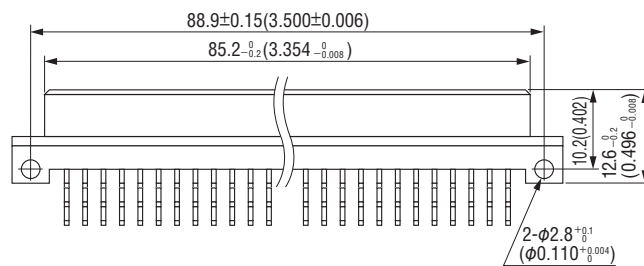
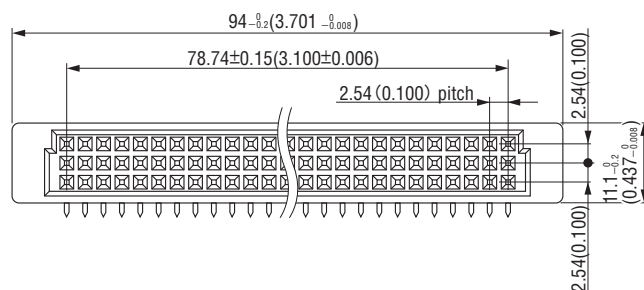
Other

Product table

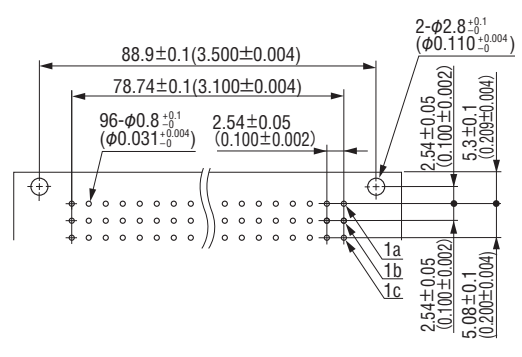
No. of contacts	Part number	Number of packaging
64	8400-064-282-N	190

8400-096-282-N (Receptacle, Right angle, 3 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



Packaging style

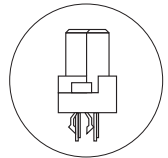
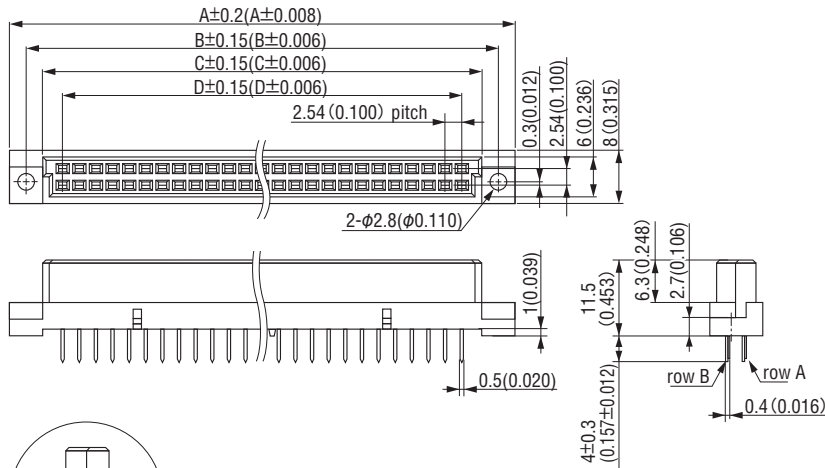
Other

Product table

No. of contacts	Part number	Number of packaging
96	8400-096-282-N	100

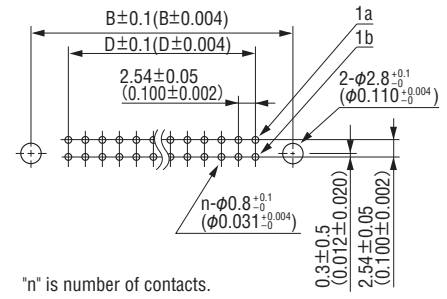
8330-□□□-283□-□-N (Receptacle, Straight, 2 rows)

Unit : mm(inch)



■ (Option) With hooks
 Recommended PWB thickness : 1.6mm (0.063")

Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.

Product table / Dimensions

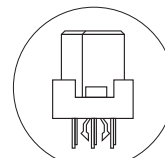
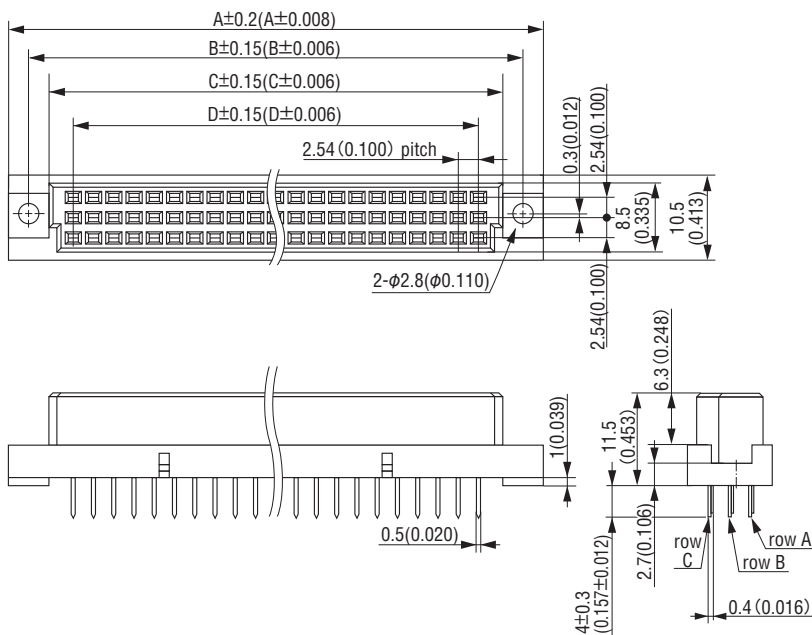
No. of contacts	Part number	A	B	C	D	Number of packaging
32	8330-032-283□-□-N	54.36 (2.140)	49.36 (1.943)	44.26 (1.743)	38.10 (1.500)	300
44	8330-044-283□-□-N	69.60 (2.740)	64.60 (2.543)	59.50 (2.343)	53.34 (2.100)	260
50	8330-050-283□-□-N	77.22 (3.040)	72.22 (2.843)	67.12 (2.643)	60.96 (2.400)	240
64	8330-064-283□-□-N	95.00 (3.740)	90.00 (3.543)	84.90 (3.343)	78.74 (3.100)	180
90	8330-090-283□-□-N	128.02 (5.040)	123.02 (4.843)	117.92 (4.643)	111.76 (4.400)	120
100	8330-100-283□-□-N	140.72 (5.540)	135.72 (5.343)	130.62 (5.143)	124.46 (4.900)	60

Packaging style

Other

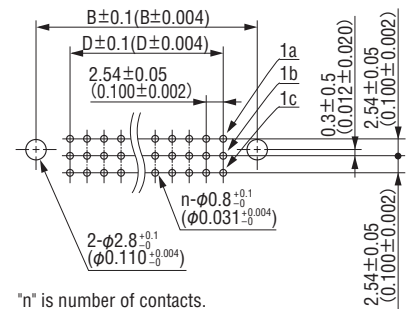
8330-□□□-283□-□-N (Receptacle, Straight, 3 rows)

Unit : mm(inch)



■ (Option) With hooks
 Recommended PWB thickness : 1.6mm (0.063")

Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.

Product table / Dimensions

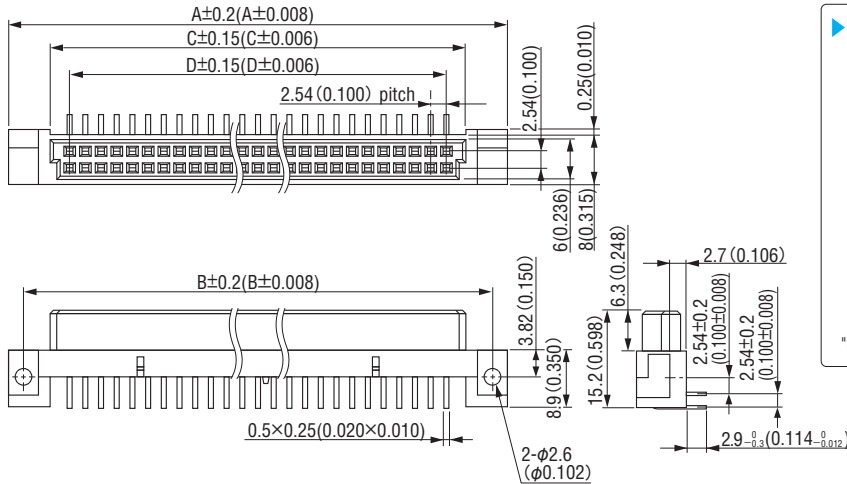
No. of contacts	Part number	A	B	C	D	Number of packaging
48	8330-048-283□-□-N	54.36 (2.140)	49.36 (1.943)	44.26 (1.743)	38.10 (1.500)	240
96	8330-096-283□-□-N	95.00 (3.740)	90.00 (3.543)	84.90 (3.343)	78.74 (3.100)	70

Packaging style

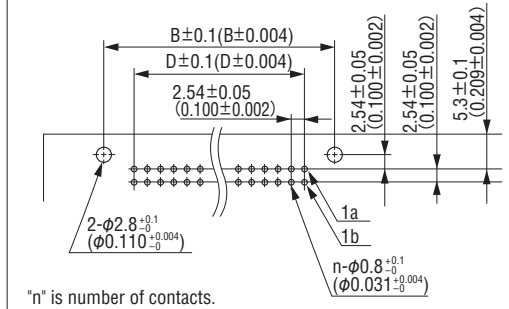
Other

8440-□□□-284□-N (Receptacle, Right angle, Flush mounting, 2 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



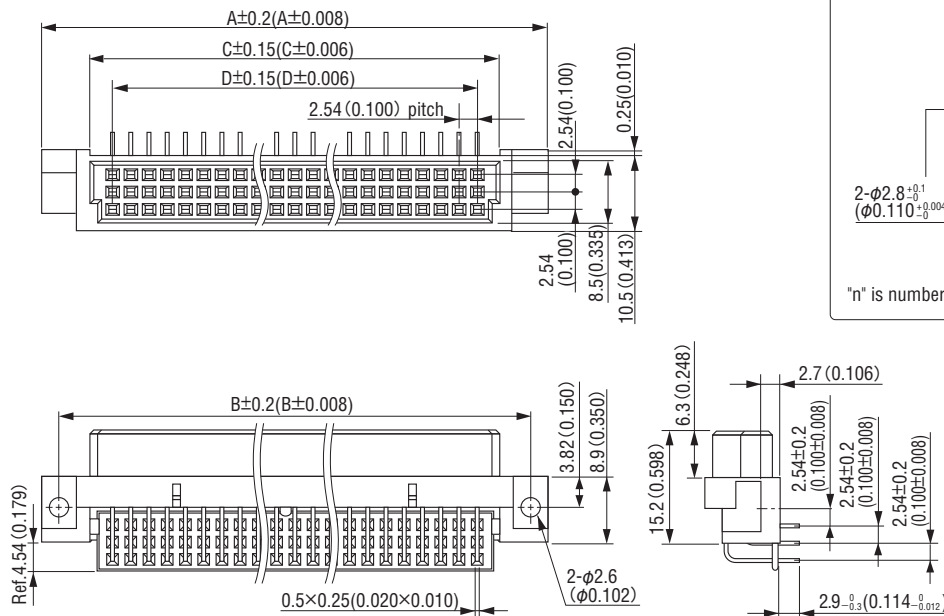
Packaging style
Other

Product table / Dimensions

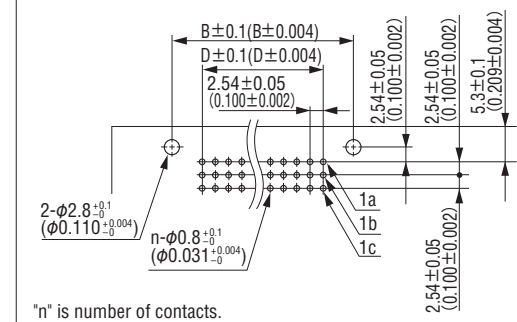
No. of contacts	Part number	A	B	C	D	Number of packaging
32	8440-032-284□-N	58.34 (2.297)	53.34 (2.100)	44.26 (1.743)	38.10 (1.500)	300
44	8440-044-284□-N	73.58 (2.897)	68.58 (2.700)	59.50 (2.343)	53.34 (2.100)	225
50	8440-050-284□-N	81.20 (3.197)	76.20 (3.000)	67.12 (2.643)	60.96 (2.400)	225
64	8440-064-284□-N	98.98 (3.897)	93.98 (3.700)	84.90 (3.343)	78.74 (3.100)	170
90	8440-090-284□-N	132.00 (5.197)	127.00 (5.000)	117.92 (4.643)	111.76 (4.400)	110
100	8440-100-284□-N	144.70 (5.697)	139.70 (5.500)	130.62 (5.143)	124.46 (4.900)	115

8440-□□□-284□-N (Receptacle, Right angle, Flush mounting, 3 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



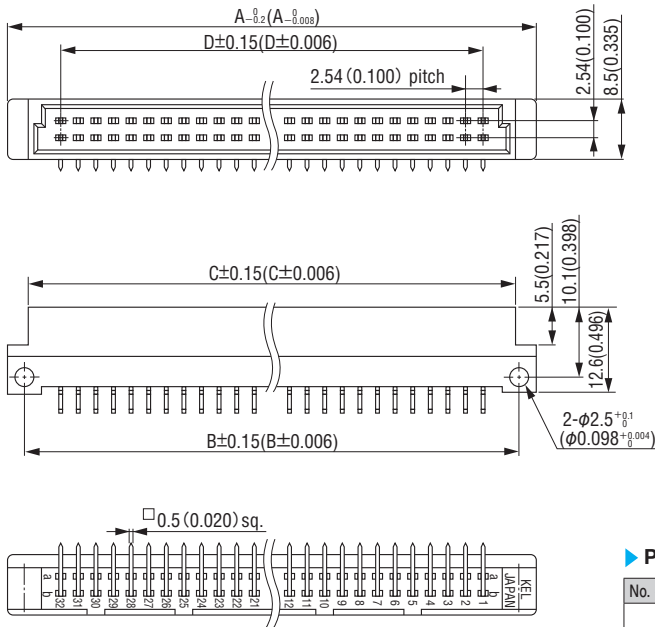
Packaging style
Other

Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
48	8440-048-284□-N	58.34 (2.297)	53.34 (2.100)	44.26 (1.743)	38.10 (1.500)	165
96	8440-096-284□-N	98.98 (3.897)	93.98 (3.700)	84.90 (3.343)	78.74 (3.100)	95

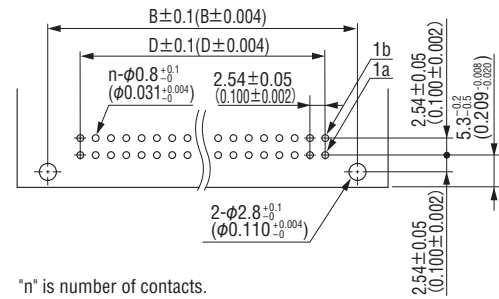
8301-□□□-290-N (Plug, Right angle, 2 rows)

Unit : mm(inch)



"n" is number of contacts.

Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.

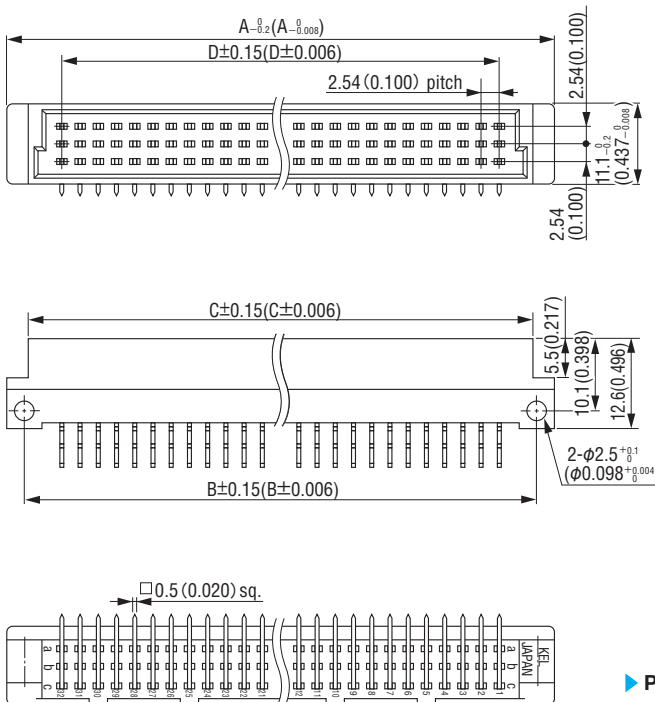
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
32	8301-032-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	280
50	8301-050-290-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	60.96 (2.400)	210
64	8301-064-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	165

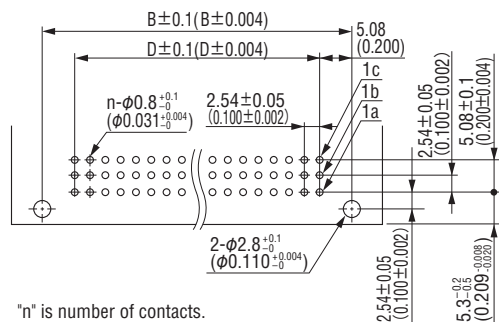
Packaging style
Other

8301-□□□-290-N (Plug, Right angle, 3 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.

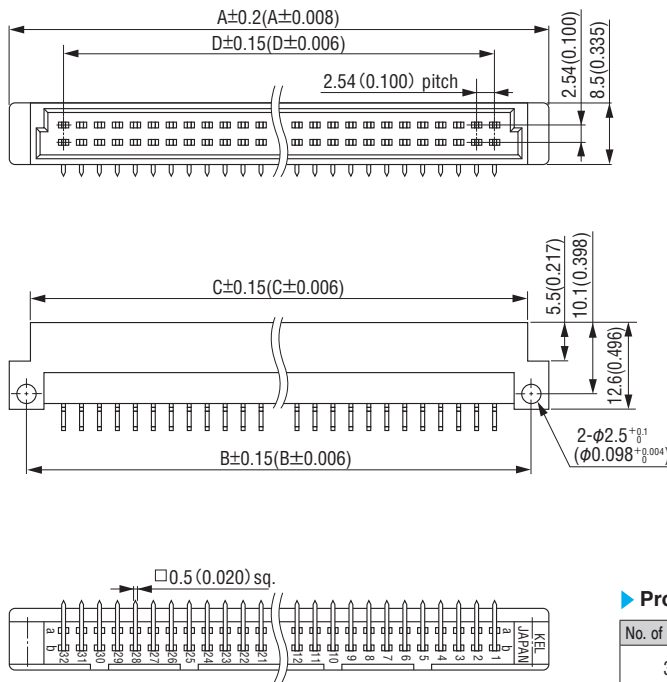
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
48	8301-048-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	180
96	8301-096-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	90

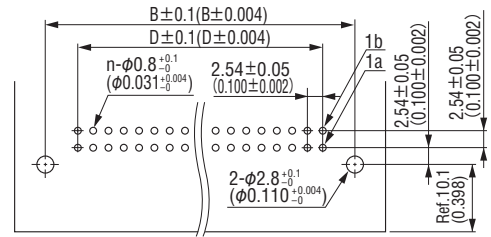
Packaging style
Other

8311-□□□-290-N (Plug, Right angle, Flush mounting, 2 rows)

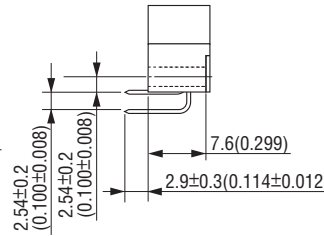
Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.



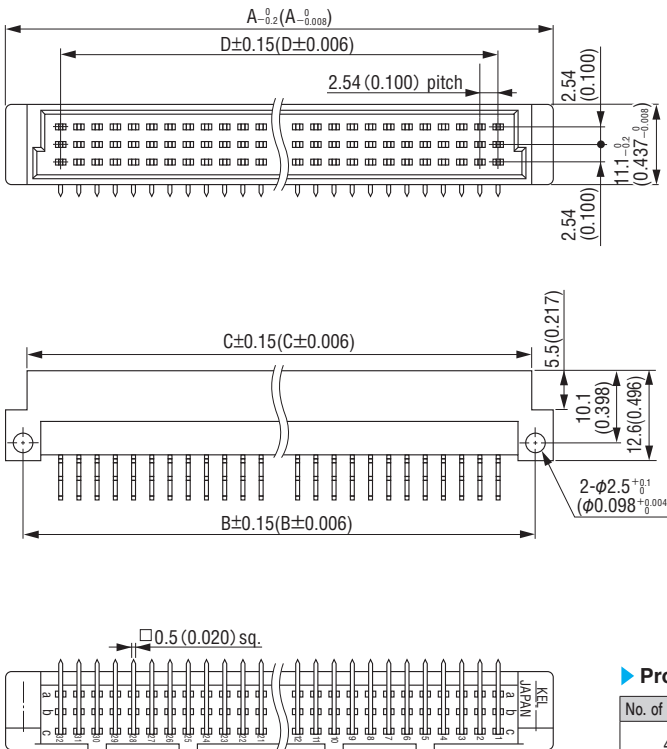
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
32	8311-032-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	280
50	8311-050-290-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	60.96 (2.400)	210
64	8311-064-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	165

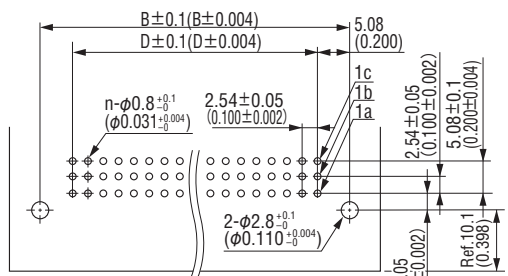
Packaging style
Other

8311-□□□-290-N (Plug, Right angle, Flush mounting, 3 rows)

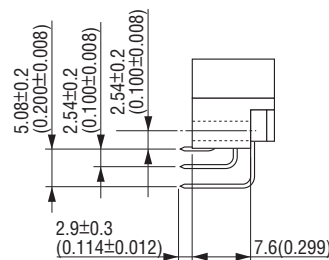
Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.



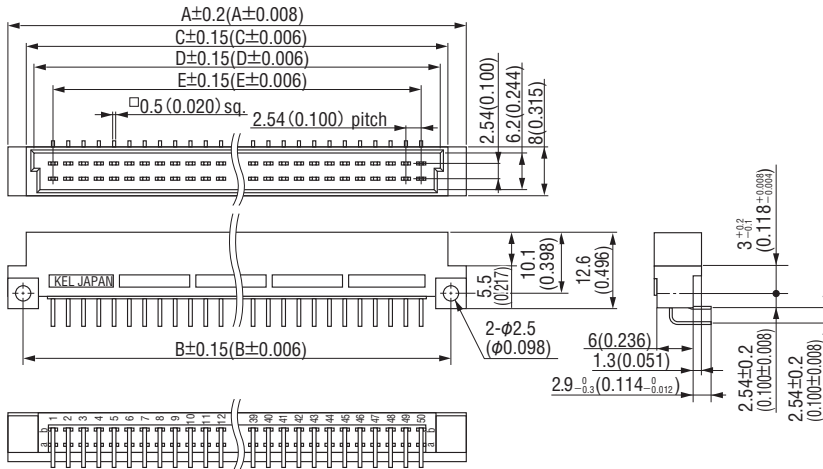
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
48	8311-048-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	180
96	8311-096-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	90

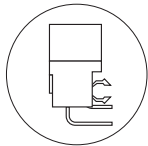
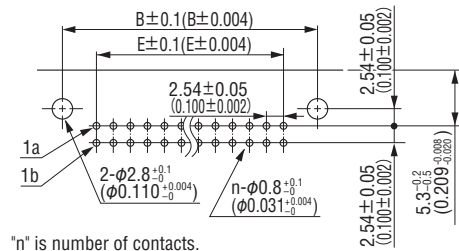
Packaging style
Other

8331-□□□-294□-□-N (Plug, Right angle, 2 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



■ (Option) With hooks
Recommended PWB
thickness :1.6mm (0.063")

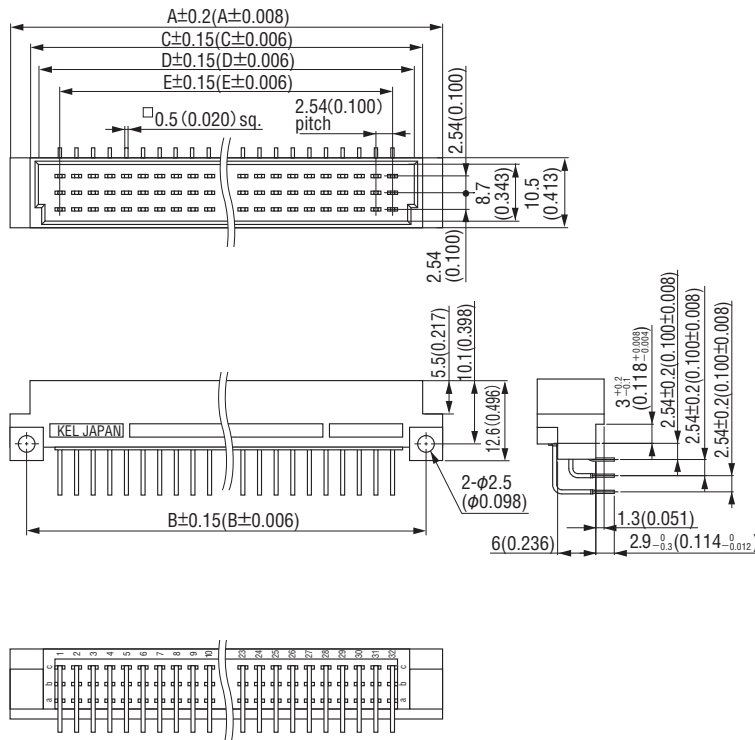
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	E	Number of packaging
32	8331-032-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	38.10 (1.500)	300
44	8331-044-294□-□-N	68.50 (2.697)	63.50 (2.500)	62.10 (2.445)	59.90 (2.358)	53.34 (2.100)	260
50	8331-050-294□-□-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	67.52 (2.658)	60.96 (2.400)	240
64	8331-064-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	180
90	8331-090-294□-□-N	126.92 (4.997)	121.92 (4.800)	120.52 (4.745)	118.32 (4.658)	111.76 (4.400)	130
100	8331-100-294□-□-N	139.62 (5.497)	134.62 (5.300)	133.22 (5.245)	131.02 (5.158)	124.46 (4.900)	120

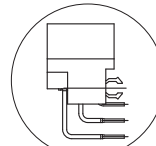
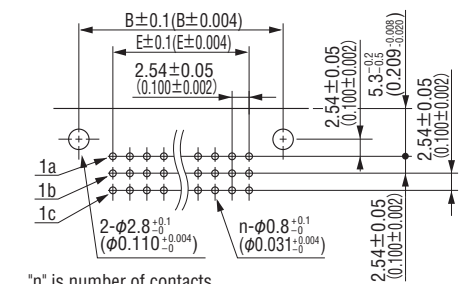
Packaging style
Other

8331-□□□-294□-□-N (Plug, Right angle, 3 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



■ (Option) With hooks
Recommended PWB
thickness :1.6mm (0.063")

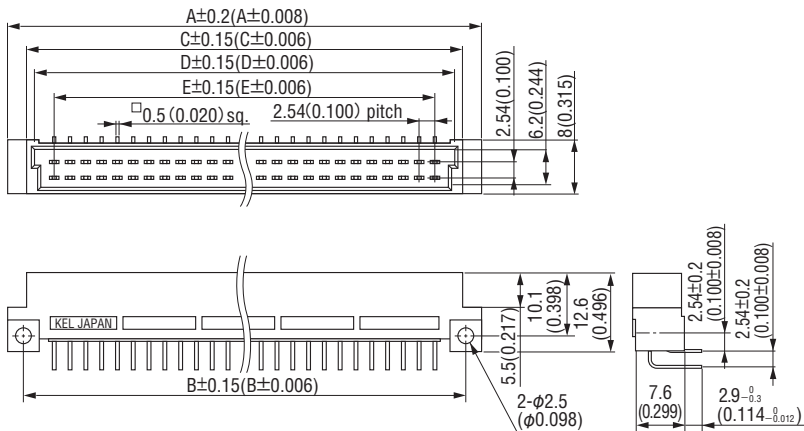
Product table / Dimensions

No. of contacts	Part number	A	B	C	D	E	Number of packaging
48	8331-048-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	44.66 (1.758)	38.10 (1.500)	180
96	8331-096-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	100

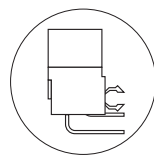
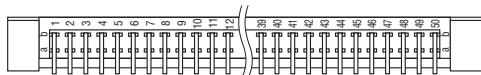
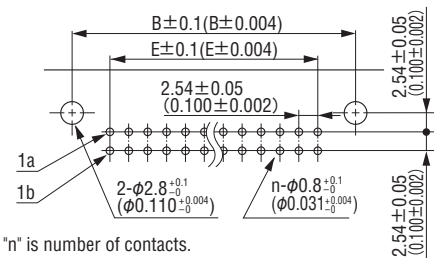
Packaging style
Other

8341-□□□-294□-□-N (Plug, Right angle, Flush mounting, 2 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



■ (Option) With hooks
Recommended PWB thickness :1.6mm(0.063")

Product table / Dimensions

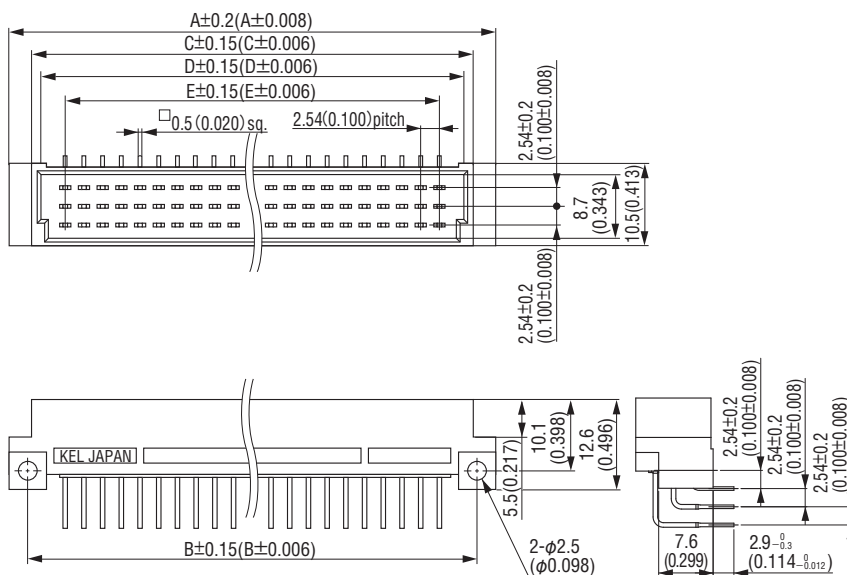
No. of contacts	Part number	A	B	C	D	E	Number of packaging
32	8341-032-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	44.66 (1.758)	38.10 (1.500)	300
44	8341-044-294□-□-N	68.50 (2.697)	63.50 (2.500)	62.10 (2.445)	59.90 (2.358)	53.34 (2.100)	260
50	8341-050-294□-□-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	67.52 (2.658)	60.96 (2.400)	240
64	8341-064-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	180
90	8341-090-294□-□-N	126.92 (4.997)	121.92 (4.800)	120.52 (4.745)	118.32 (4.658)	111.76 (4.400)	130
100	8341-100-294□-□-N	139.62 (5.497)	134.62 (5.300)	133.22 (5.245)	131.02 (5.158)	124.46 (4.900)	120

Packaging style

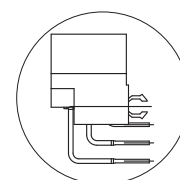
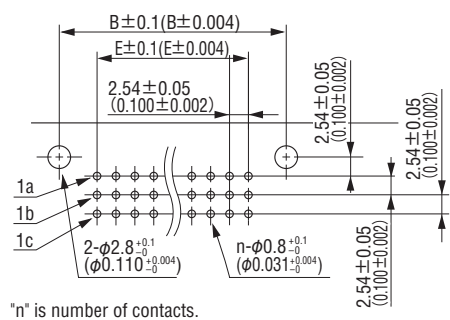
Other

8341-□□□-294□-□-N (Plug, Right angle, Flush mounting, 3 rows)

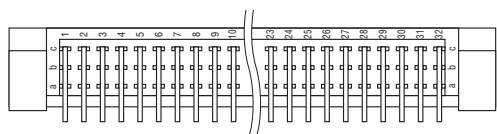
Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



■ (Option) With hooks
Recommended PWB thickness :1.6mm(0.063")



Product table / Dimensions

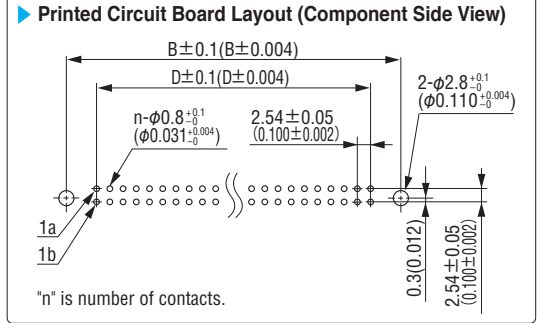
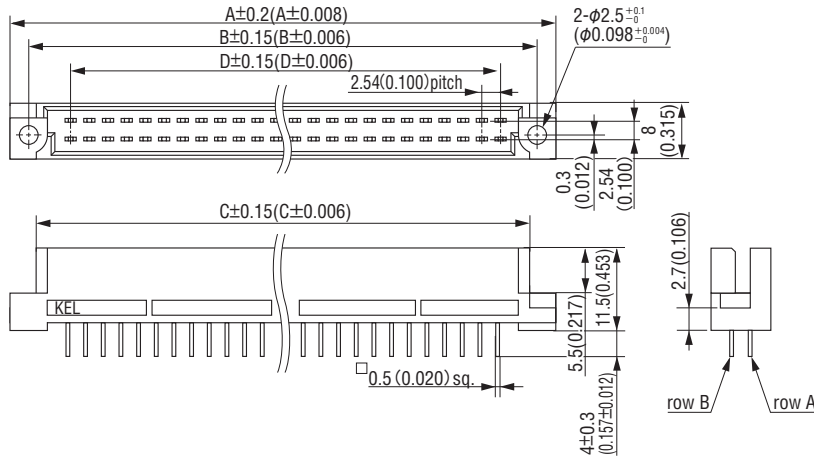
No. of contacts	Part number	A	B	C	D	E	Number of packaging
48	8341-048-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	44.66 (1.758)	38.10 (1.500)	180
96	8341-096-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	100

Packaging style

Other

8431-□□□-294□-N (Plug, Straight, 2 rows)

Unit : mm(inch)



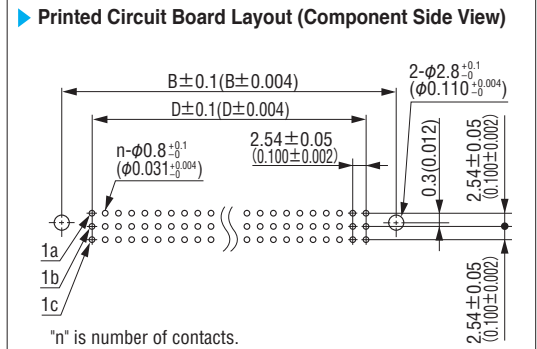
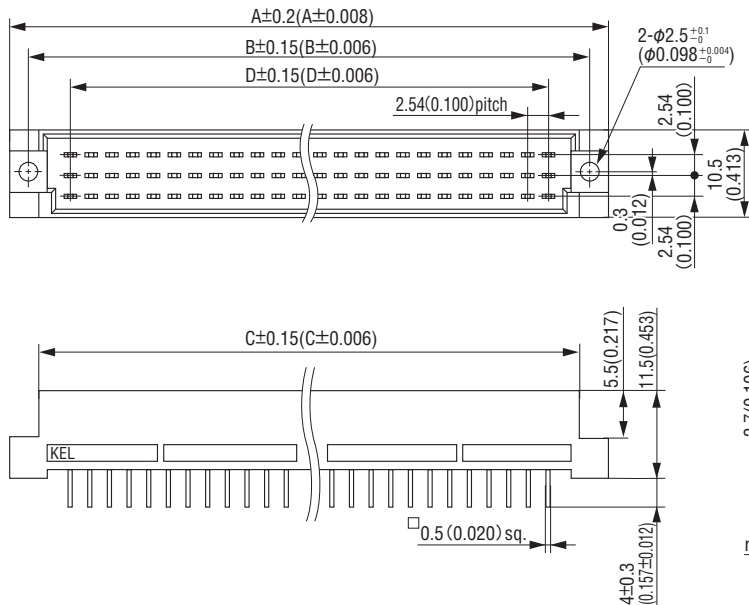
Packaging style
Other

Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
32	8431-032-294□-N	53.26 (2.097)	49.36 (1.943)	46.86 (1.845)	38.10 (1.500)	300
44	8431-044-294□-N	68.50 (2.697)	64.60 (2.543)	62.10 (2.445)	53.34 (2.100)	260
50	8431-050-294□-N	76.12 (2.997)	72.22 (2.843)	69.72 (2.745)	60.96 (2.400)	240
64	8431-064-294□-N	93.90 (3.697)	90.00 (3.543)	87.50 (3.445)	78.74 (3.100)	180
90	8431-090-294□-N	126.92 (4.997)	123.02 (4.843)	120.52 (4.745)	111.76 (4.400)	120
100	8431-100-294□-N	139.62 (5.497)	135.72 (5.343)	133.22 (5.245)	124.46 (4.900)	120

8431-□□□-294□-N (Plug, Straight, 3 rows)

Unit : mm(inch)



Packaging style
Other

Product table / Dimensions

No. of contacts	Part number	A	B	C	D	Number of packaging
48	8431-048-294□-N	53.26 (2.097)	49.36 (1.943)	46.86 (1.845)	38.10 (1.500)	240
96	8431-096-294□-N	93.90 (3.697)	90.00 (3.543)	87.50 (3.445)	78.74 (3.100)	140

Vertical mating

Unit : mm(inch)

◆ 2 rows

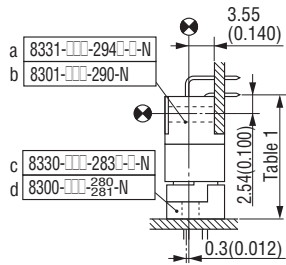


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

◆ 3 rows

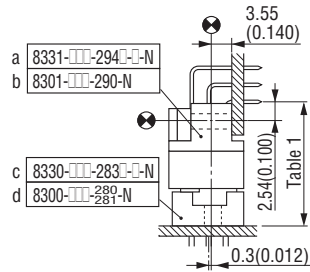


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

◆ 2 rows

Table2	c	d
a	5.22 (0.206)	5.22 (0.206)
b	5.22 (0.206)	5.22 (0.206)

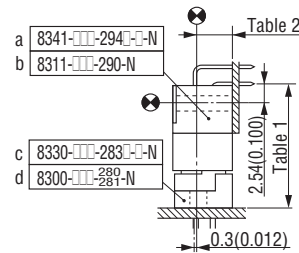


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

◆ 3 rows

Table2	c	d
a	5.20 (0.205)	5.20 (0.205)
b	5.25 (0.207)	5.25 (0.207)

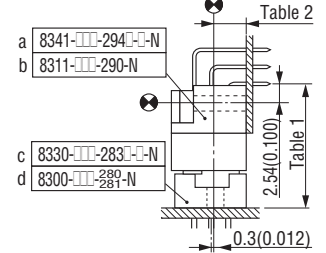
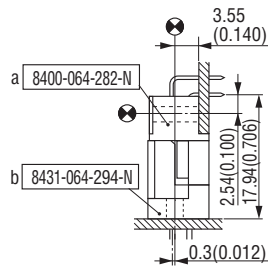
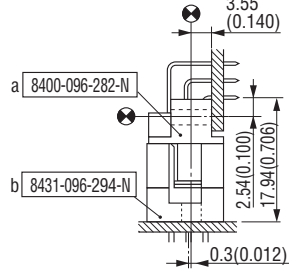


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

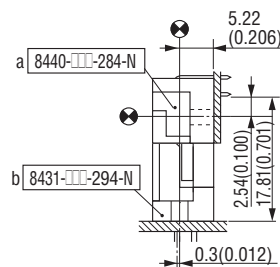
◆ 2 rows



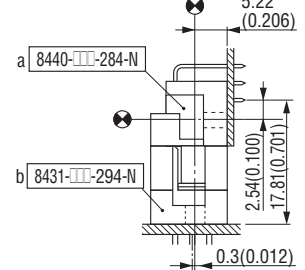
◆ 3 rows



◆ 2 rows



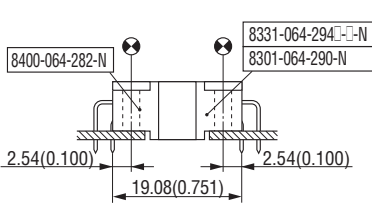
◆ 3 rows



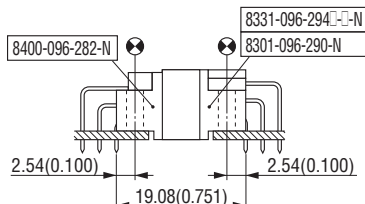
Horizontal mating

Unit : mm(inch)

◆ 2 rows



◆ 3 rows



◆ 2 rows

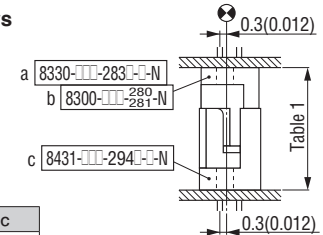
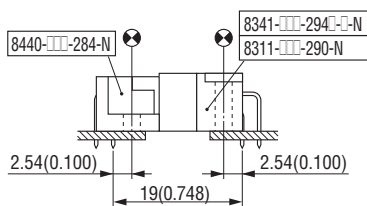
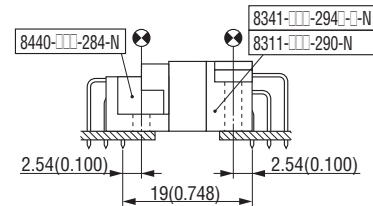


Table1	c
a	16.7 (0.657)
b	16.6 (0.654)

◆ 2 rows



◆ 3 rows



◆ 3 rows

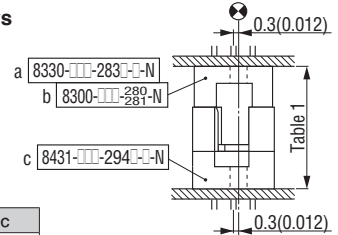


Table1	c
a	16.7 (0.657)
b	16.6 (0.654)

Stacked mating

Unit : mm(inch)