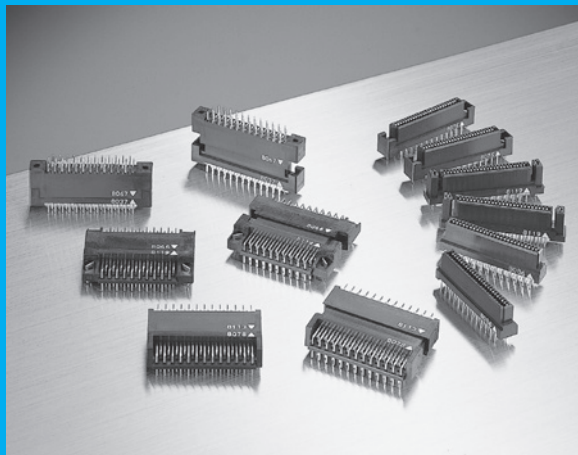


# 8800 SERIES

## 1.27mm PITCH CONNECTOR

RoHS  
Compliant



### FEATURES

- ▶ With a completely-independent two-point contact system, a stable contact pressure is maintained at all times.
- ▶ Low insertion and withdrawal force.
- ▶ Plug and Receptacle contacts share common tooling which means increased productivity and greater product diversity.
- ▶ Contact structure equipped with self-cleaning mechanism.
- ▶ Insulator designed to prevent mis-insertion and protect the contacts from damage.

### ORDER CODE

**880**  -    - **170**   - **F**

①      ②      ③      ④ ⑤ ⑥

\*Please order in multiples of the quantity per package.

- ① **[Type]** Receptacle **8800** : With flanges and without hooks **8801** : With flanges and hooks **8802** : Without flanges **8803** : With power contacts
- ② **[Number of contacts]** **020** : 20pin **026** : 26pin **030** : 30pin **032** : 32pin **034** : 34pin **040** : 40pin **050** : 50pin **052** : 52pin  
**060** : 60pin **068** : 68pin **080** : 80pin **100** : 100pin
- ③ **[Contact name]** **170**
- ④ **[Contact tail style]** **S** : Straight **L** : Right angle
- ⑤ **[Plating of contact area]** **Omit** : Au 0.05  $\mu$  m (Standard) **D** : Au 0.25  $\mu$  m (Upon request)
- ⑥ **[RoHS]** **F** : RoHS Compliant

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

### ORDER CODE

**881**  -    - **170**   - **F**

①      ②      ③      ④ ⑤ ⑥

\*Please order in multiples of the quantity per package.

- ① **[Type]** Plug **8810** : With flanges and without hooks **8811** : With flanges and hooks **8812** : Without flanges **8813** : With power contacts
- ② **[Number of contacts]** **020** : 20pin **026** : 26pin **030** : 30pin **032** : 32pin **034** : 34pin **040** : 40pin **050** : 50pin **052** : 52pin  
**060** : 60pin **068** : 68pin **080** : 80pin **100** : 100pin
- ③ **[Contact name]** **170**
- ④ **[Contact tail style]** **S** : Straight **L** : Right angle
- ⑤ **[Plating of contact area]** **Omit** : Au 0.05  $\mu$  m (Standard) **D** : Au 0.25  $\mu$  m (Upon request)
- ⑥ **[RoHS]** **F** : 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 Nylon 66 (UL94V-0),Black                                     | Current rating                        | Signal contact ; 0.5A per contact<br>Power contact (8803/8813 Series) ;2A per contact |
|                      |                                                                           | Contact resistance                    | 25m $\Omega$ max.                                                                     |
| Contact material     | Copper alloy                                                              | Dielectric withstanding voltage       | 650V AC for 1 minute                                                                  |
|                      |                                                                           | Insulation resistance                 | 1,000M $\Omega$ min. at 500V DC                                                       |
| Contact plating      | (Contact area) Gold over Nickel<br>(Terminal area) Tin copper over Nickel | Insertion force<br>(Typical example)  | 18.6N max./ 20 pin, 37.2N max./ 40 pin,<br>55.9N max./ 60 pin, 93.1N max./ 100 pin    |
|                      |                                                                           | Withdrawal force<br>(Typical example) | 2.9N min./ 20 pin, 7.8N min./ 40 pin,<br>11.8N min./ 60 pin, 19.6N min./ 100 pin      |
|                      |                                                                           | Operating temperature                 | -55°C to +85°C                                                                        |

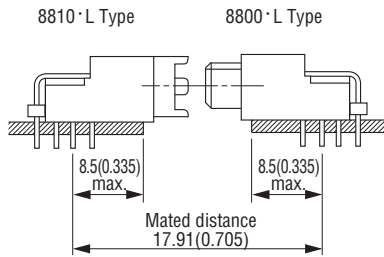
\* 1A per terminal is possible under certain conditions limiting the number of contacts to be used. For more details, please contact your local KEL sales office.

## Mating Drawing

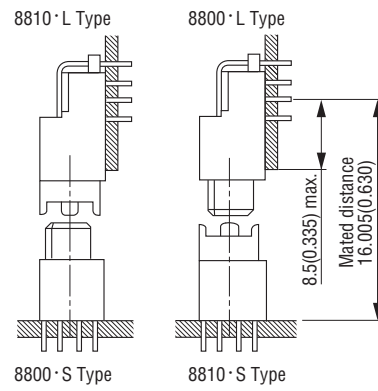
Unit : mm(inch)

Horizontal, Vertical and Stacked mating options available as illustrated.

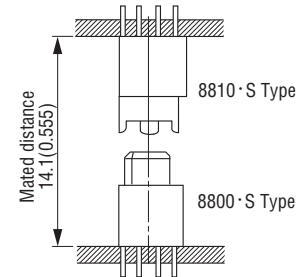
### ◆ Horizontal Mating



### ◆ Stacked Mating

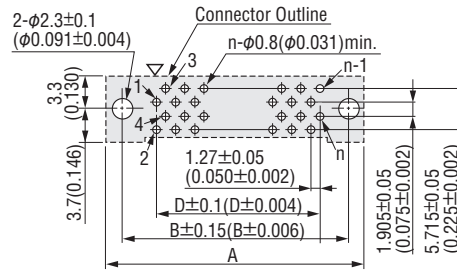


### ◆ Vertical Mating

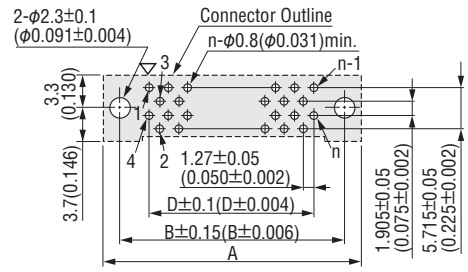


## Printed Circuit Board Layout (Component Side View)

For 20,32,40,52,60,68,80,100 pins

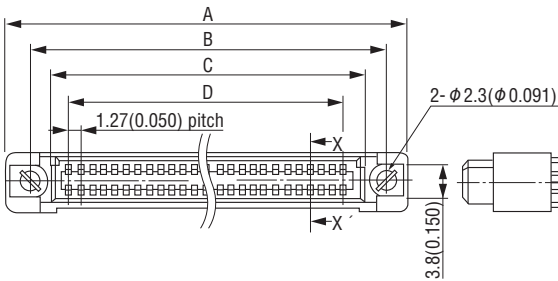
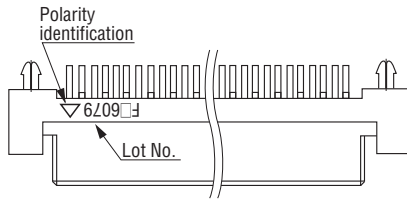


For 26,30,34,50 pins

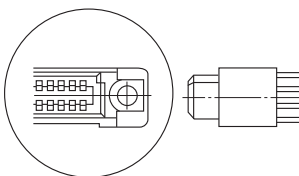
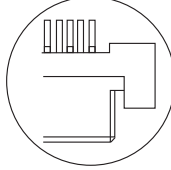
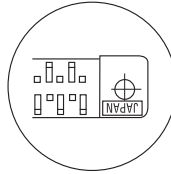

Recommended PCB Thickness  $t = 1.6 \pm 0.2$  (0.063  $\pm$  0.008)

▽=Polarity identification "n" is number of contacts.

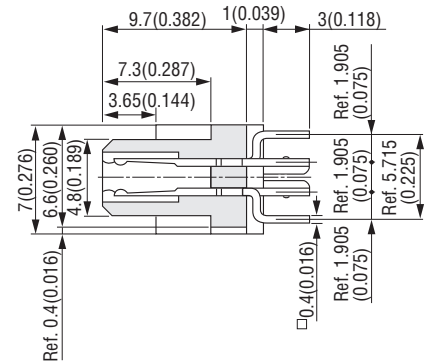
### 8801series



### 8800series



### X-X' Cross Section



### Packaging style

Pipe

### Product Table / Dimensions

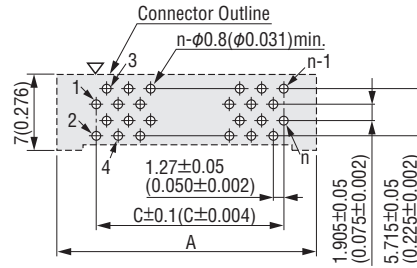
| No. of contacts | Part Number                          | A                | B                | C                | D                | Number of packaging |
|-----------------|--------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8800-020-170S□-F<br>8801-020-170S□-F | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.43<br>(0.607) | 11.43<br>(0.450) | 20                  |
| 26              | 8800-026-170S□-F<br>8801-026-170S□-F | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.24<br>(0.757) | 15.24<br>(0.600) | 17                  |
| 30              | 8800-030-170S□-F<br>8801-030-170S□-F | 31.78<br>(1.251) | 26.67<br>(1.050) | 21.78<br>(0.857) | 17.78<br>(0.700) | 16                  |
| 32              | 8800-032-170S□-F<br>8801-032-170S□-F | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.05<br>(0.907) | 19.05<br>(0.750) | 15                  |
| 34              | 8800-034-170S□-F<br>8801-034-170S□-F | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.32<br>(0.957) | 20.32<br>(0.800) | 14                  |
| 40              | 8800-040-170S□-F<br>8801-040-170S□-F | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.13<br>(1.107) | 24.13<br>(0.950) | 13                  |
| 50              | 8800-050-170S□-F<br>8801-050-170S□-F | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.48<br>(1.357) | 30.48<br>(1.200) | 11                  |
| 52              | 8800-052-170S□-F<br>8801-052-170S□-F | 45.75<br>(1.801) | 40.64<br>(1.600) | 35.75<br>(1.407) | 31.75<br>(1.250) | 11                  |
| 60              | 8800-060-170S□-F<br>8801-060-170S□-F | 50.83<br>(2.001) | 45.72<br>(1.800) | 40.83<br>(1.607) | 36.83<br>(1.450) | 10                  |
| 68              | 8800-068-170S□-F<br>8801-068-170S□-F | 55.91<br>(2.201) | 50.80<br>(2.000) | 45.91<br>(1.807) | 41.91<br>(1.650) | 9                   |
| 80              | 8800-080-170S□-F<br>8801-080-170S□-F | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.53<br>(2.107) | 49.53<br>(1.950) | 8                   |
| 100             | 8800-100-170S□-F<br>8801-100-170S□-F | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.23<br>(2.607) | 62.23<br>(2.450) | 6                   |

# 8802-□□□-170S□-F (Receptacle, Without flanges, Straight)

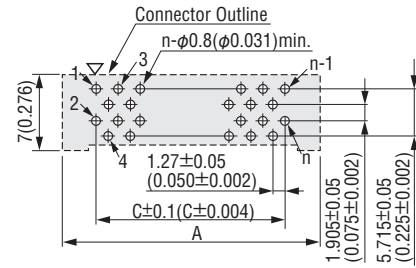
Unit : mm(inch)

## Printed Circuit Board Layout (Component Side View)

For 20,32,40,52,60,68,80,100 pins

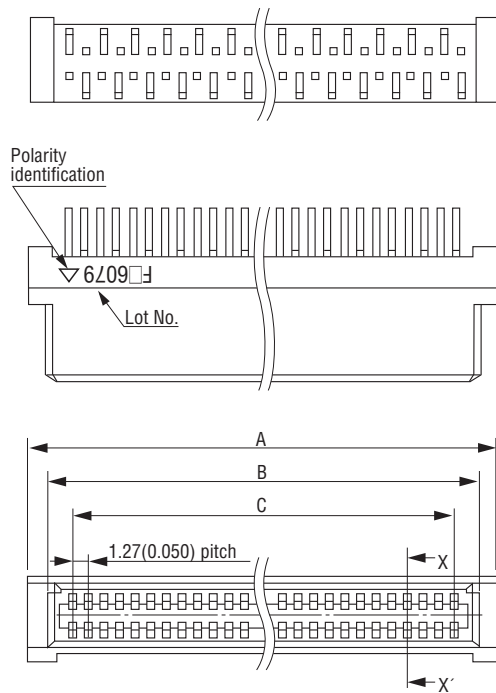


For 26,30,34,50 pins

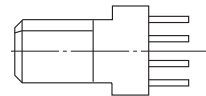
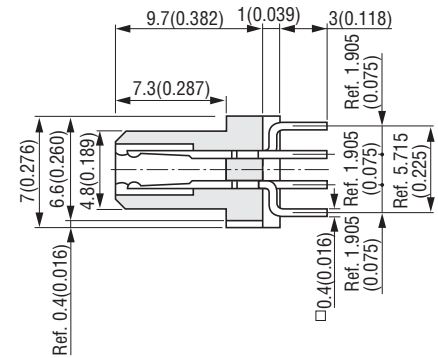


Recommended PCB Thickness  $t=1.6 \pm 0.1$  (0.063 ± 0.004)

▽=Polarity identification "n" is number of contacts.



## X-X' Cross Section



Packaging style

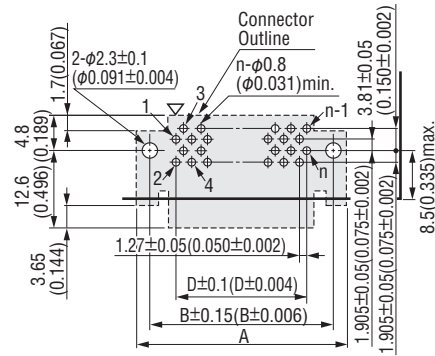
Pipe

## Product Table / Dimensions

| No. of contacts | Part Number      | A                | B                | C                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8802-020-170S□-F | 17.83<br>(0.702) | 15.43<br>(0.607) | 11.43<br>(0.450) | 28                  |
| 26              | 8802-026-170S□-F | 21.64<br>(0.852) | 19.24<br>(0.757) | 15.24<br>(0.600) | 23                  |
| 30              | 8802-030-170S□-F | 24.18<br>(0.952) | 21.78<br>(0.857) | 17.78<br>(0.700) | 21                  |
| 32              | 8802-032-170S□-F | 25.45<br>(1.002) | 23.05<br>(0.907) | 19.05<br>(0.750) | 20                  |
| 34              | 8802-034-170S□-F | 26.72<br>(1.052) | 24.32<br>(0.957) | 20.32<br>(0.800) | 19                  |
| 40              | 8802-040-170S□-F | 30.53<br>(1.202) | 28.13<br>(1.107) | 24.13<br>(0.950) | 16                  |
| 50              | 8802-050-170S□-F | 36.88<br>(1.452) | 34.48<br>(1.357) | 30.48<br>(1.200) | 13                  |
| 52              | 8802-052-170S□-F | 38.15<br>(1.502) | 35.75<br>(1.407) | 31.75<br>(1.250) | 13                  |
| 60              | 8802-060-170S□-F | 43.23<br>(1.702) | 40.83<br>(1.607) | 36.83<br>(1.450) | 11                  |
| 68              | 8802-068-170S□-F | 48.31<br>(1.902) | 45.91<br>(1.807) | 41.91<br>(1.650) | 10                  |
| 80              | 8802-080-170S□-F | 55.93<br>(2.202) | 53.53<br>(2.107) | 49.53<br>(1.950) | 9                   |
| 100             | 8802-100-170S□-F | 68.63<br>(2.702) | 66.23<br>(2.607) | 62.23<br>(2.450) | 7                   |

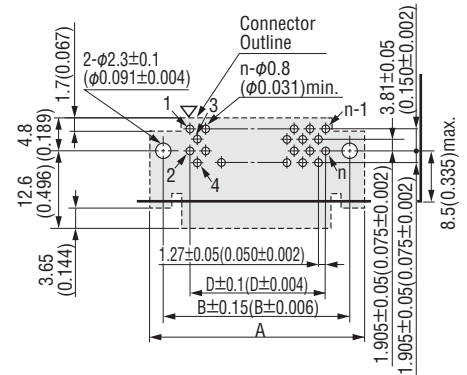
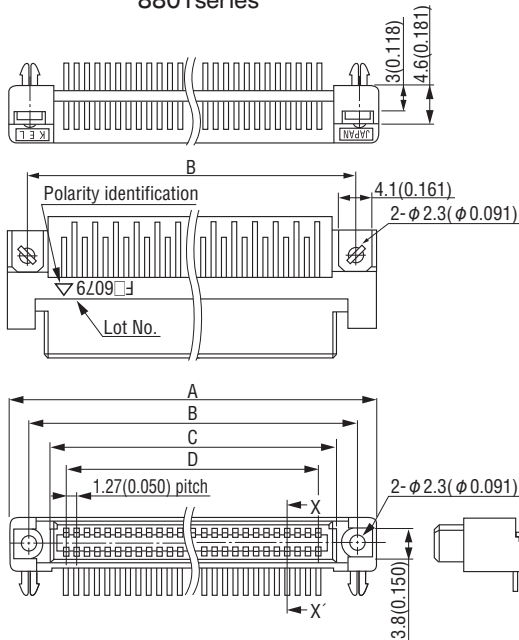
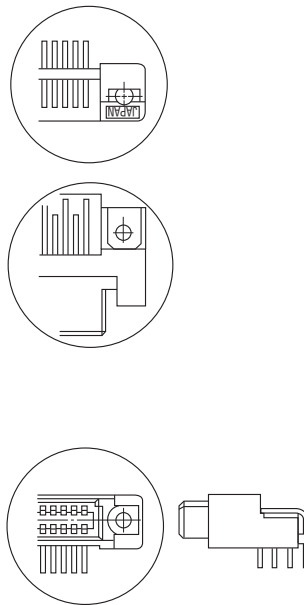
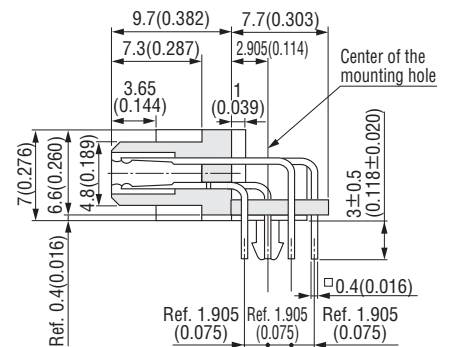
**▶ Printed Circuit Board Layout (Component Side View)**

For 20,32,40,52,60,68,80,100 pins


Recommended PCB Thickness  $t = 1.6 \pm 0.2$  (0.063  $\pm 0.008$ )

▽=Polarity identification "n" is number of contacts.

For 26,30,34,50 pins


**8801series**

**8800series**

**X-X' Cross Section**

**Packaging style**

Pipe

**▶ Product Table / Dimensions**

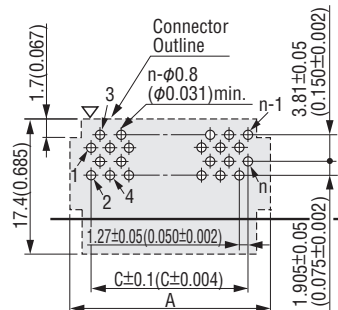
| No. of contacts | Part Number                          | A                | B                | C                | D                | Number of packaging |
|-----------------|--------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8800-020-170L□-F<br>8801-020-170L□-F | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.43<br>(0.607) | 11.43<br>(0.450) | 20                  |
| 26              | 8800-026-170L□-F<br>8801-026-170L□-F | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.24<br>(0.757) | 15.24<br>(0.600) | 17                  |
| 30              | 8800-030-170L□-F<br>8801-030-170L□-F | 31.78<br>(1.251) | 26.67<br>(1.050) | 21.78<br>(0.857) | 17.78<br>(0.700) | 16                  |
| 32              | 8800-032-170L□-F<br>8801-032-170L□-F | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.05<br>(0.907) | 19.05<br>(0.750) | 15                  |
| 34              | 8800-034-170L□-F<br>8801-034-170L□-F | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.32<br>(0.957) | 20.32<br>(0.800) | 14                  |
| 40              | 8800-040-170L□-F<br>8801-040-170L□-F | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.13<br>(1.107) | 24.13<br>(0.950) | 13                  |
| 50              | 8800-050-170L□-F<br>8801-050-170L□-F | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.48<br>(1.357) | 30.48<br>(1.200) | 11                  |
| 52              | 8800-052-170L□-F<br>8801-052-170L□-F | 45.75<br>(1.801) | 40.64<br>(1.600) | 35.75<br>(1.407) | 31.75<br>(1.250) | 11                  |
| 60              | 8800-060-170L□-F<br>8801-060-170L□-F | 50.83<br>(2.001) | 45.72<br>(1.800) | 40.83<br>(1.607) | 36.83<br>(1.450) | 10                  |
| 68              | 8800-068-170L□-F<br>8801-068-170L□-F | 55.91<br>(2.201) | 50.80<br>(2.000) | 45.91<br>(1.807) | 41.91<br>(1.650) | 9                   |
| 80              | 8800-080-170L□-F<br>8801-080-170L□-F | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.53<br>(2.107) | 49.53<br>(1.950) | 8                   |
| 100             | 8800-100-170L□-F<br>8801-100-170L□-F | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.23<br>(2.607) | 62.23<br>(2.450) | 6                   |

# 8802-□□□-170L□-F (Receptacle, Without flanges, Right angle)

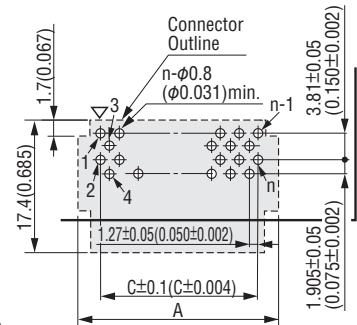
Unit : mm(inch)

## Printed Circuit Board Layout (Component Side View)

For 20,32,40,52,60,68,80,100 pins

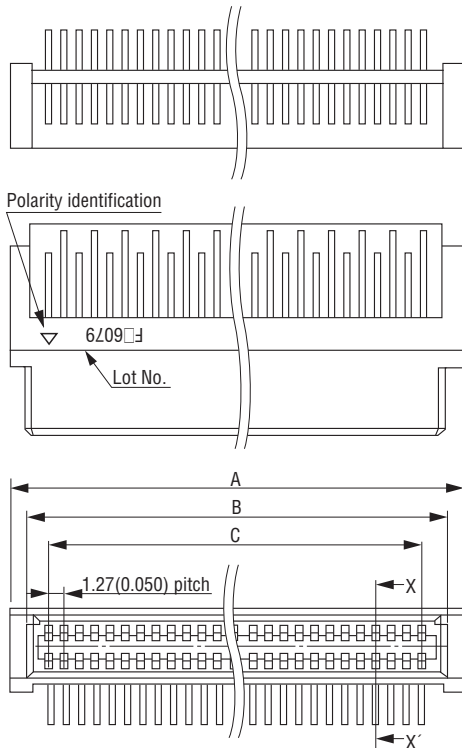


For 26,30,34,50 pins

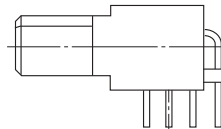
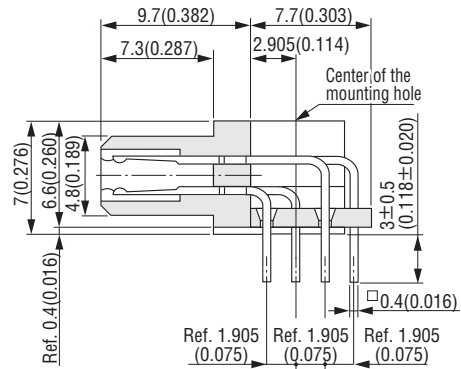


Recommended PCB Thickness  $t = 1.6^{+0.2}_{-0.1}$  (0.063 $^{+0.008}_{-0.004}$ )

▽=Polarity identification "n" is number of contacts.



## X-X' Cross Section



Packaging style

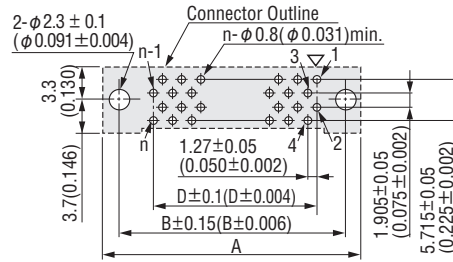
Pipe

## Product Table / Dimensions

| No. of contacts | Part Number      | A                | B                | C                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8802-020-170L□-F | 17.83<br>(0.702) | 15.43<br>(0.607) | 11.43<br>(0.450) | 28                  |
| 26              | 8802-026-170L□-F | 21.64<br>(0.852) | 19.24<br>(0.757) | 15.24<br>(0.600) | 23                  |
| 30              | 8802-030-170L□-F | 24.18<br>(0.952) | 21.78<br>(0.857) | 17.78<br>(0.700) | 21                  |
| 32              | 8802-032-170L□-F | 25.45<br>(1.002) | 23.05<br>(0.907) | 19.05<br>(0.750) | 20                  |
| 34              | 8802-034-170L□-F | 26.72<br>(1.052) | 24.32<br>(0.957) | 20.32<br>(0.800) | 19                  |
| 40              | 8802-040-170L□-F | 30.53<br>(1.202) | 28.13<br>(1.107) | 24.13<br>(0.950) | 16                  |
| 50              | 8802-050-170L□-F | 36.88<br>(1.452) | 34.48<br>(1.357) | 30.48<br>(1.200) | 13                  |
| 52              | 8802-052-170L□-F | 38.15<br>(1.502) | 35.75<br>(1.407) | 31.75<br>(1.250) | 13                  |
| 60              | 8802-060-170L□-F | 43.23<br>(1.702) | 40.83<br>(1.607) | 36.83<br>(1.450) | 11                  |
| 68              | 8802-068-170L□-F | 48.31<br>(1.902) | 45.91<br>(1.807) | 41.91<br>(1.650) | 10                  |
| 80              | 8802-080-170L□-F | 55.93<br>(2.202) | 53.53<br>(2.107) | 49.53<br>(1.950) | 9                   |
| 100             | 8802-100-170L□-F | 68.63<br>(2.702) | 66.23<br>(2.607) | 62.23<br>(2.450) | 7                   |

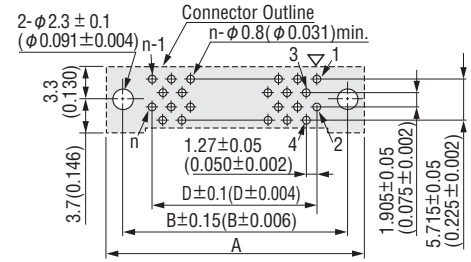
## Printed Circuit Board Layout (Component Side View)

For 20,32,40,52,60,68,80,100 pins

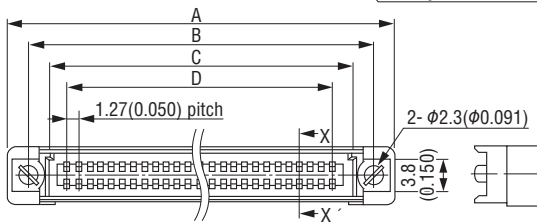
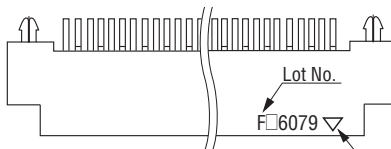

Recommended PCB Thickness  $t = 1.6 \pm 0.2$  (0.063  $\pm 0.008$ )

▽=Polarity identification "n" is number of contacts.

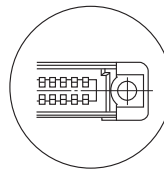
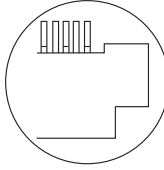
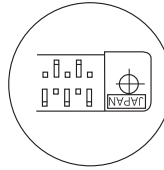
For 26,30,34,50 pins



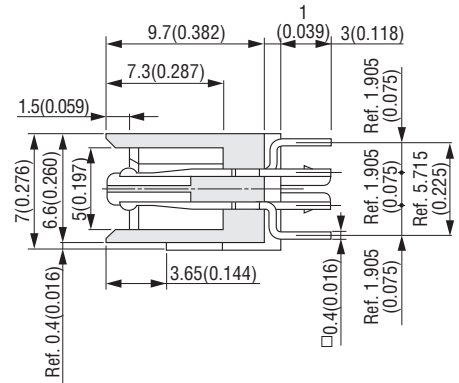
### 8811series



### 8810series



### X-X' Cross Section



### Packaging style

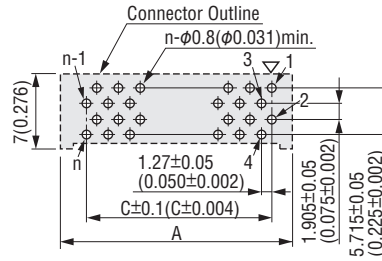
Pipe

### Product Table / Dimensions

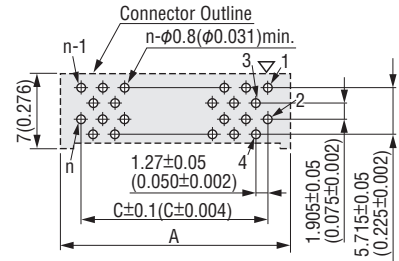
| No. of contacts | Part Number                          | A                | B                | C                | D                | Number of packaging |
|-----------------|--------------------------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8810-020-170S□-F<br>8811-020-170S□-F | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.83<br>(0.623) | 11.43<br>(0.450) | 20                  |
| 26              | 8810-026-170S□-F<br>8811-026-170S□-F | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.64<br>(0.773) | 15.24<br>(0.600) | 17                  |
| 30              | 8810-030-170S□-F<br>8811-030-170S□-F | 31.78<br>(1.251) | 26.67<br>(1.050) | 22.18<br>(0.873) | 17.78<br>(0.700) | 16                  |
| 32              | 8810-032-170S□-F<br>8811-032-170S□-F | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.45<br>(0.923) | 19.05<br>(0.750) | 15                  |
| 34              | 8810-034-170S□-F<br>8811-034-170S□-F | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.72<br>(0.973) | 20.32<br>(0.800) | 14                  |
| 40              | 8810-040-170S□-F<br>8811-040-170S□-F | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.53<br>(1.123) | 24.13<br>(0.950) | 13                  |
| 50              | 8810-050-170S□-F<br>8811-050-170S□-F | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.88<br>(1.373) | 30.48<br>(1.200) | 11                  |
| 52              | 8810-052-170S□-F<br>8811-052-170S□-F | 45.75<br>(1.801) | 40.64<br>(1.600) | 36.15<br>(1.423) | 31.75<br>(1.250) | 11                  |
| 60              | 8810-060-170S□-F<br>8811-060-170S□-F | 50.83<br>(2.001) | 45.72<br>(1.800) | 41.23<br>(1.623) | 36.83<br>(1.450) | 10                  |
| 68              | 8810-068-170S□-F<br>8811-068-170S□-F | 55.91<br>(2.201) | 50.80<br>(2.000) | 46.31<br>(1.823) | 41.91<br>(1.650) | 9                   |
| 80              | 8810-080-170S□-F<br>8811-080-170S□-F | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.93<br>(2.123) | 49.53<br>(1.950) | 8                   |
| 100             | 8810-100-170S□-F<br>8811-100-170S□-F | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.63<br>(2.623) | 62.23<br>(2.450) | 6                   |

## ▶ Printed Circuit Board Layout (Component Side View)

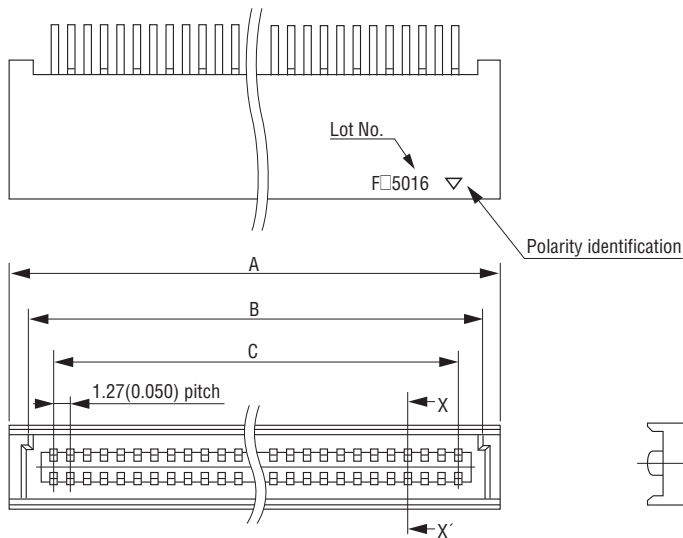
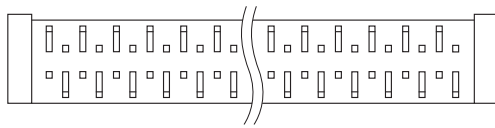
For 20,32,40,52,60,68,80,100 pins



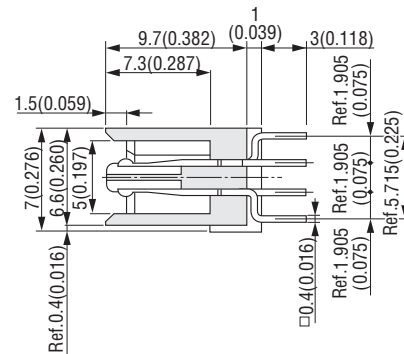
For 26,30,34,50 pins


Recommended PCB Thickness  $t = 1.6 \pm 0.2$  (0.063 ± 0.008)

▽=Polarity identification "n" is number of contacts.



## X-X' Cross Section



Packaging style

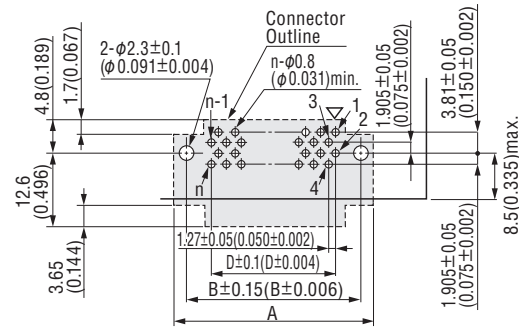
Pipe

## ▶ Product Table / Dimensions

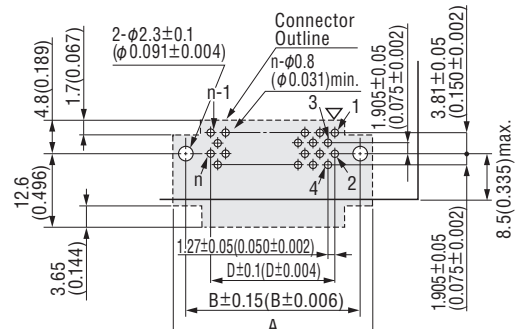
| No. of contacts | Part Number      | A                | B                | C                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8812-020-170S□-F | 17.83<br>(0.702) | 15.83<br>(0.623) | 11.43<br>(0.450) | 28                  |
| 26              | 8812-026-170S□-F | 21.64<br>(0.852) | 19.64<br>(0.773) | 15.24<br>(0.600) | 23                  |
| 30              | 8812-030-170S□-F | 24.18<br>(0.952) | 22.18<br>(0.873) | 17.78<br>(0.700) | 21                  |
| 32              | 8812-032-170S□-F | 25.45<br>(1.002) | 23.45<br>(0.923) | 19.05<br>(0.750) | 20                  |
| 34              | 8812-034-170S□-F | 26.72<br>(1.052) | 24.72<br>(0.973) | 20.32<br>(0.800) | 19                  |
| 40              | 8812-040-170S□-F | 30.53<br>(1.202) | 28.53<br>(1.123) | 24.13<br>(0.950) | 16                  |
| 50              | 8812-050-170S□-F | 36.88<br>(1.452) | 34.88<br>(1.373) | 30.48<br>(1.200) | 13                  |
| 52              | 8812-052-170S□-F | 38.15<br>(1.502) | 36.15<br>(1.423) | 31.75<br>(1.250) | 13                  |
| 60              | 8812-060-170S□-F | 43.23<br>(1.702) | 41.23<br>(1.623) | 36.83<br>(1.450) | 11                  |
| 68              | 8812-068-170S□-F | 48.31<br>(1.902) | 46.31<br>(1.823) | 41.91<br>(1.650) | 10                  |
| 80              | 8812-080-170S□-F | 55.93<br>(2.202) | 53.93<br>(2.123) | 49.53<br>(1.950) | 9                   |
| 100             | 8812-100-170S□-F | 68.63<br>(2.702) | 66.63<br>(2.623) | 62.23<br>(2.450) | 7                   |

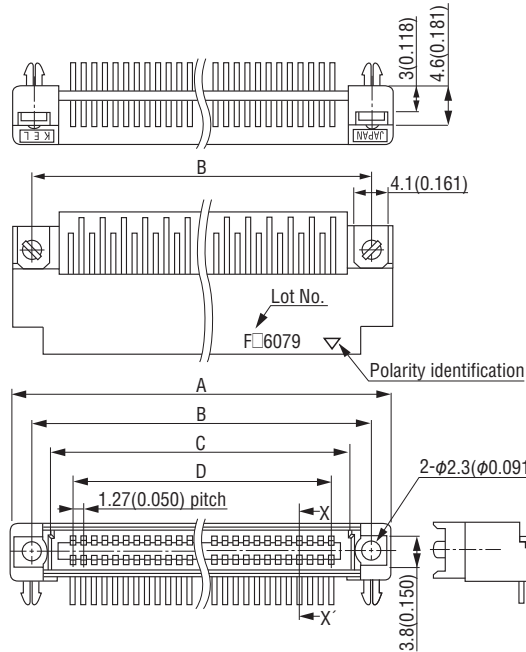
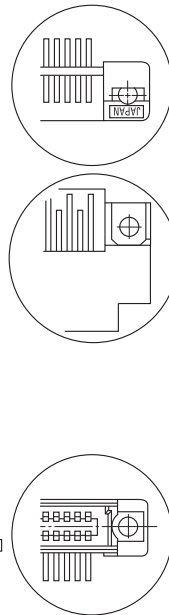
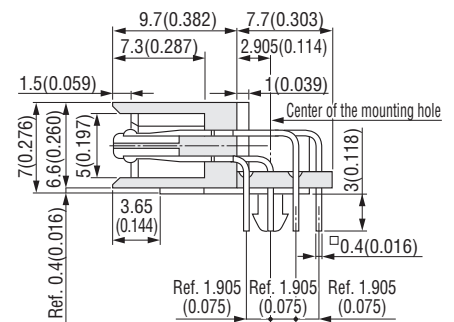
**▶ Printed Circuit Board Layout (Component Side View)**

For 20,32,40,52,60,68,80,100 pins



For 26,30,34,50 pins


Recommended PCB Thickness  $t = 1.6 \pm 0.2$  (0.063  $\pm$  0.008)  $\nabla$ =Polarity identification "n" is number of contacts.

**8811series**

**8810series**

**X-X' Cross Section**


Packaging style

Pipe

**▶ Product Table / Dimensions**

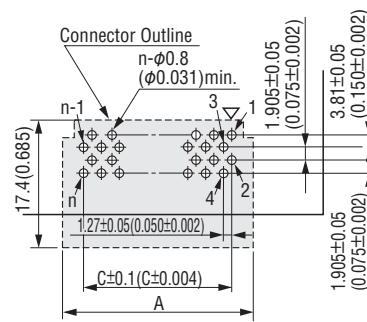
| No. of contacts | Part Number              | A                | B                | C                | D                | Number of packaging |
|-----------------|--------------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8810-020-170L□-F<br>8811 | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.83<br>(0.623) | 11.43<br>(0.450) | 20                  |
| 26              | 8810-026-170L□-F<br>8811 | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.64<br>(0.773) | 15.24<br>(0.600) | 17                  |
| 30              | 8810-030-170L□-F<br>8811 | 31.78<br>(1.251) | 26.67<br>(1.050) | 22.18<br>(0.873) | 17.78<br>(0.700) | 16                  |
| 32              | 8810-032-170L□-F<br>8811 | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.45<br>(0.923) | 19.05<br>(0.750) | 15                  |
| 34              | 8810-034-170L□-F<br>8811 | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.72<br>(0.973) | 20.32<br>(0.800) | 14                  |
| 40              | 8810-040-170L□-F<br>8811 | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.53<br>(1.123) | 24.13<br>(0.950) | 13                  |
| 50              | 8810-050-170L□-F<br>8811 | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.88<br>(1.373) | 30.48<br>(1.200) | 11                  |
| 52              | 8810-052-170L□-F<br>8811 | 45.75<br>(1.801) | 40.64<br>(1.600) | 36.15<br>(1.423) | 31.75<br>(1.250) | 11                  |
| 60              | 8810-060-170L□-F<br>8811 | 50.83<br>(2.001) | 45.72<br>(1.800) | 41.23<br>(1.623) | 36.83<br>(1.450) | 10                  |
| 68              | 8810-068-170L□-F<br>8811 | 55.91<br>(2.201) | 50.80<br>(2.000) | 46.31<br>(1.823) | 41.91<br>(1.650) | 9                   |
| 80              | 8810-080-170L□-F<br>8811 | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.93<br>(2.123) | 49.53<br>(1.950) | 8                   |
| 100             | 8810-100-170L□-F<br>8811 | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.63<br>(2.623) | 62.23<br>(2.450) | 6                   |

# 8812-□□□-170L□-F (Plug, Without flanges, Right angle)

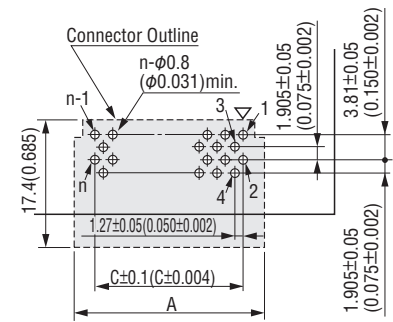
Unit : mm(inch)

## Printed Circuit Board Layout (Component Side View)

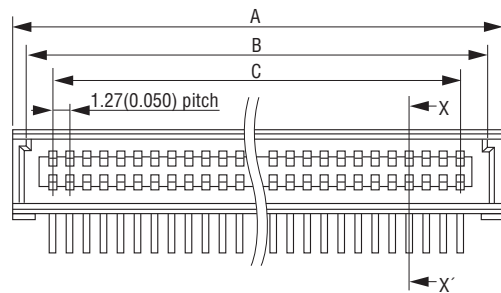
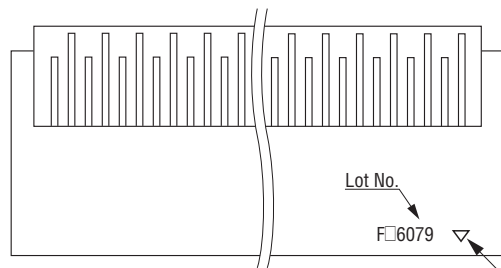
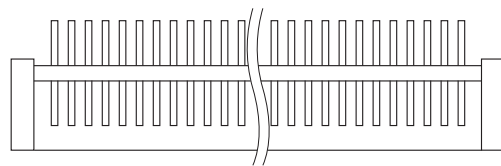
For 20,32,40,52,60,68,80,100 pins



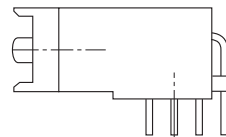
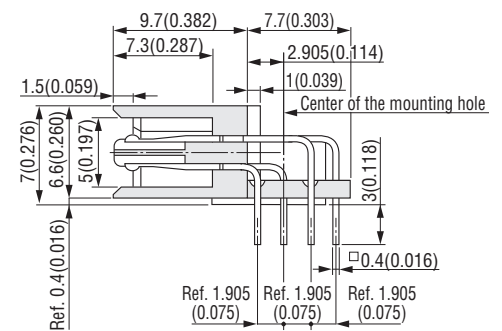
For 26,30,34,50 pins



Recommended PCB Thickness  $t = 1.6 \pm 0.2 \text{ (0.063 } \pm 0.008 \text{)}$   $\nabla$  = Polarity identification "n" is number of contacts.



## X-X' Cross Section



Packaging style

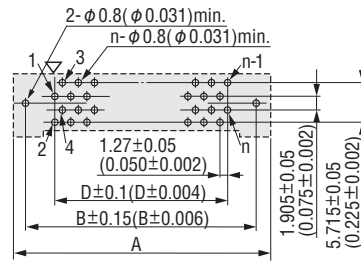
Pipe

## Product Table / Dimensions

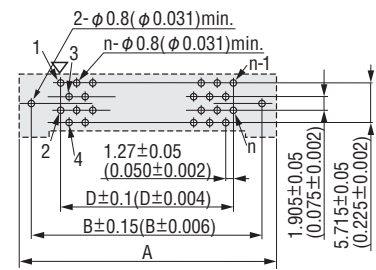
| No. of contacts | Part Number      | A                | B                | C                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8812-020-170L□-F | 17.83<br>(0.702) | 15.83<br>(0.623) | 11.43<br>(0.450) | 28                  |
| 26              | 8812-026-170L□-F | 21.64<br>(0.852) | 19.64<br>(0.773) | 15.24<br>(0.600) | 23                  |
| 30              | 8812-030-170L□-F | 24.18<br>(0.952) | 22.18<br>(0.873) | 17.78<br>(0.700) | 21                  |
| 32              | 8812-032-170L□-F | 25.45<br>(1.002) | 23.45<br>(0.923) | 19.05<br>(0.750) | 20                  |
| 34              | 8812-034-170L□-F | 26.72<br>(1.052) | 24.72<br>(0.973) | 20.32<br>(0.800) | 19                  |
| 40              | 8812-040-170L□-F | 30.53<br>(1.202) | 28.53<br>(1.123) | 24.13<br>(0.950) | 16                  |
| 50              | 8812-050-170L□-F | 36.88<br>(1.452) | 34.88<br>(1.373) | 30.48<br>(1.200) | 13                  |
| 52              | 8812-052-170L□-F | 38.15<br>(1.502) | 36.15<br>(1.423) | 31.75<br>(1.250) | 13                  |
| 60              | 8812-060-170L□-F | 43.23<br>(1.702) | 41.23<br>(1.623) | 36.83<br>(1.450) | 11                  |
| 68              | 8812-068-170L□-F | 48.31<br>(1.902) | 46.31<br>(1.823) | 41.91<br>(1.650) | 10                  |
| 80              | 8812-080-170L□-F | 55.93<br>(2.202) | 53.93<br>(2.123) | 49.53<br>(1.950) | 9                   |
| 100             | 8812-100-170L□-F | 68.63<br>(2.702) | 66.63<br>(2.623) | 62.23<br>(2.450) | 7                   |

## Printed Circuit Board Layout (Component Side View)

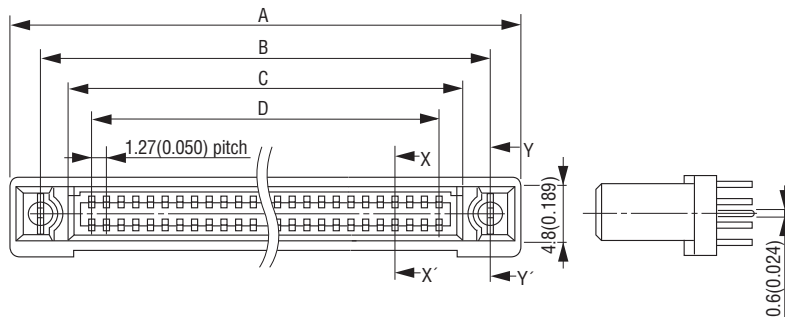
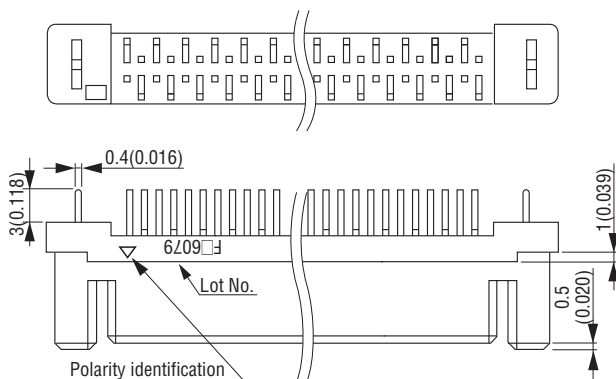
For 20,32,40,52,60,68,80,100 pins



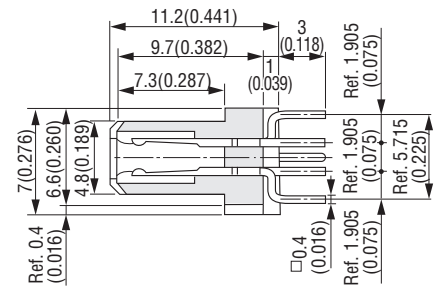
For 26,30,34,50 pins


Recommended PCB Thickness  $t = 1.6^{+0.2}_{-0.1}$  (0.063<sup>+0.008</sup><sub>-0.004</sub>)

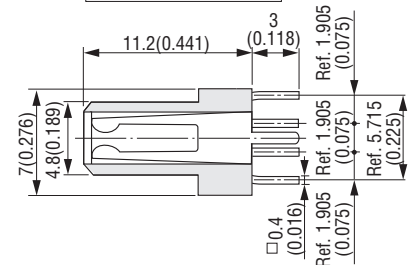
▽=Polarity identification "n" is number of contacts.



## X-X' Cross Section



## Y-Y' Cross Section



Packaging style

Pipe

## Product Table / Dimensions

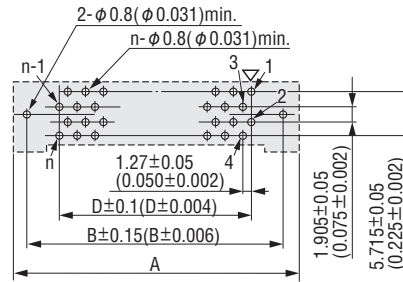
| No. of contacts | Part Number      | A                | B                | C                | D                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8803-020-170S□-F | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.43<br>(0.607) | 11.43<br>(0.450) | 20                  |
| 26              | 8803-026-170S□-F | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.24<br>(0.757) | 15.24<br>(0.600) | 17                  |
| 30              | 8803-030-170S□-F | 31.78<br>(1.251) | 26.67<br>(1.050) | 21.78<br>(0.857) | 17.78<br>(0.700) | 16                  |
| 32              | 8803-032-170S□-F | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.05<br>(0.907) | 19.05<br>(0.750) | 15                  |
| 34              | 8803-034-170S□-F | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.32<br>(0.957) | 20.32<br>(0.800) | 14                  |
| 40              | 8803-040-170S□-F | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.13<br>(1.107) | 24.13<br>(0.950) | 13                  |
| 50              | 8803-050-170S□-F | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.48<br>(1.357) | 30.48<br>(1.200) | 11                  |
| 52              | 8803-052-170S□-F | 45.75<br>(1.801) | 40.64<br>(1.593) | 35.75<br>(1.407) | 31.75<br>(1.250) | 11                  |
| 60              | 8803-060-170S□-F | 50.83<br>(2.001) | 45.72<br>(1.800) | 40.83<br>(1.607) | 36.83<br>(1.450) | 10                  |
| 68              | 8803-068-170S□-F | 55.91<br>(2.201) | 50.80<br>(2.000) | 45.91<br>(1.807) | 41.91<br>(1.650) | 9                   |
| 80              | 8803-080-170S□-F | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.53<br>(2.107) | 49.53<br>(1.950) | 8                   |
| 100             | 8803-100-170S□-F | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.23<br>(2.607) | 62.23<br>(2.450) | 6                   |

# 8813-□□□-170S□-F (Plug, With power contacts, Straight)

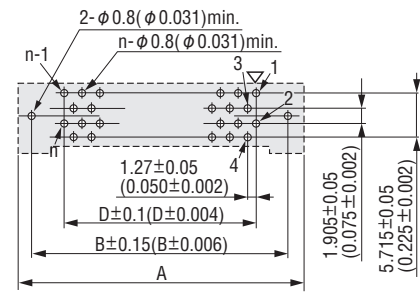
Unit : mm(inch)

## Printed Circuit Board Layout (Component Side View)

For 20,32,40,52,60,68,80,100 pins

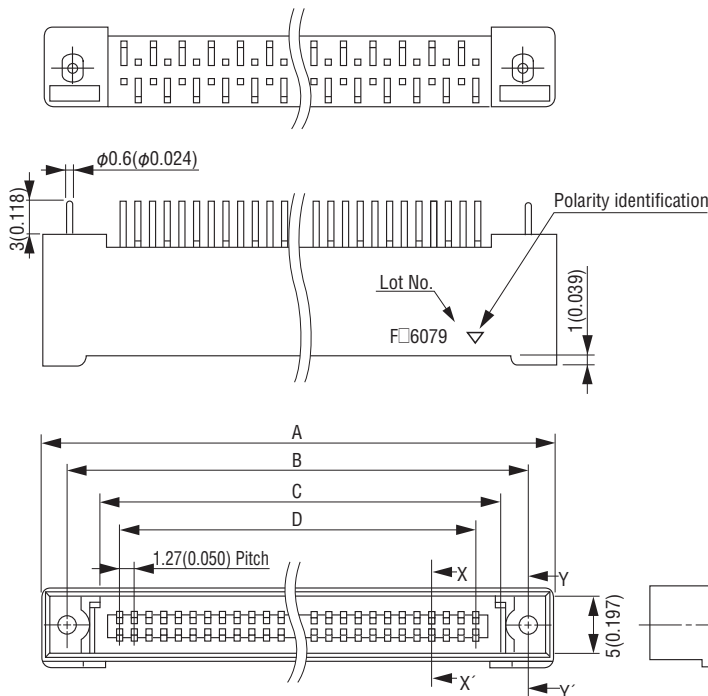


For 26,30,34,50 pins

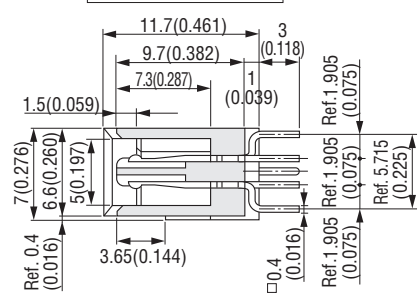


Recommended PCB Thickness  $t=1.6^{+0.2}_{-0.1}$  (0.063<sup>+0.008</sup><sub>-0.004</sub>)

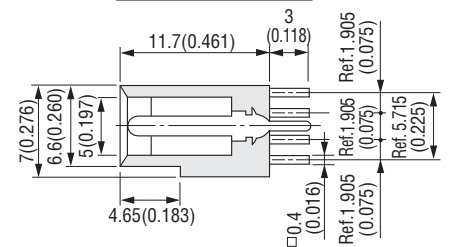
▽=Polarity identification "n" is number of contacts.



## X-X' Cross Section



## Y-Y' Cross Section



Packaging style

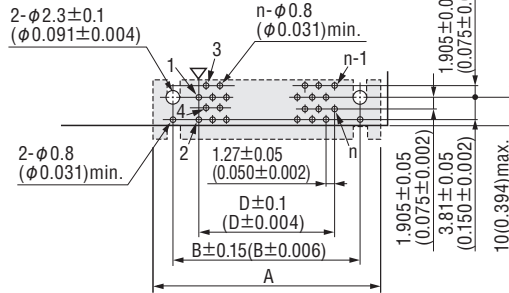
Pipe

## Product Table / Dimensions

| No. of contacts | Part Number      | A                | B                | C                | D                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8813-020-170S□-F | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.83<br>(0.623) | 11.43<br>(0.450) | 20                  |
| 26              | 8813-026-170S□-F | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.64<br>(0.773) | 15.24<br>(0.600) | 17                  |
| 30              | 8813-030-170S□-F | 31.78<br>(1.251) | 26.67<br>(1.050) | 22.18<br>(0.873) | 17.78<br>(0.700) | 16                  |
| 32              | 8813-032-170S□-F | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.45<br>(0.923) | 19.05<br>(0.750) | 15                  |
| 34              | 8813-034-170S□-F | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.72<br>(0.973) | 20.32<br>(0.800) | 14                  |
| 40              | 8813-040-170S□-F | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.53<br>(1.123) | 24.13<br>(0.950) | 13                  |
| 50              | 8813-050-170S□-F | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.88<br>(1.373) | 30.48<br>(1.200) | 11                  |
| 52              | 8813-052-170S□-F | 45.75<br>(1.801) | 40.64<br>(1.593) | 36.15<br>(1.423) | 31.75<br>(1.250) | 11                  |
| 60              | 8813-060-170S□-F | 50.83<br>(2.001) | 45.72<br>(1.800) | 41.23<br>(1.623) | 36.83<br>(1.450) | 10                  |
| 68              | 8813-068-170S□-F | 55.91<br>(2.201) | 50.80<br>(2.000) | 46.31<br>(1.823) | 41.91<br>(1.650) | 9                   |
| 80              | 8813-080-170S□-F | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.93<br>(2.123) | 49.53<br>(1.950) | 8                   |
| 100             | 8813-100-170S□-F | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.63<br>(2.623) | 62.23<br>(2.450) | 6                   |

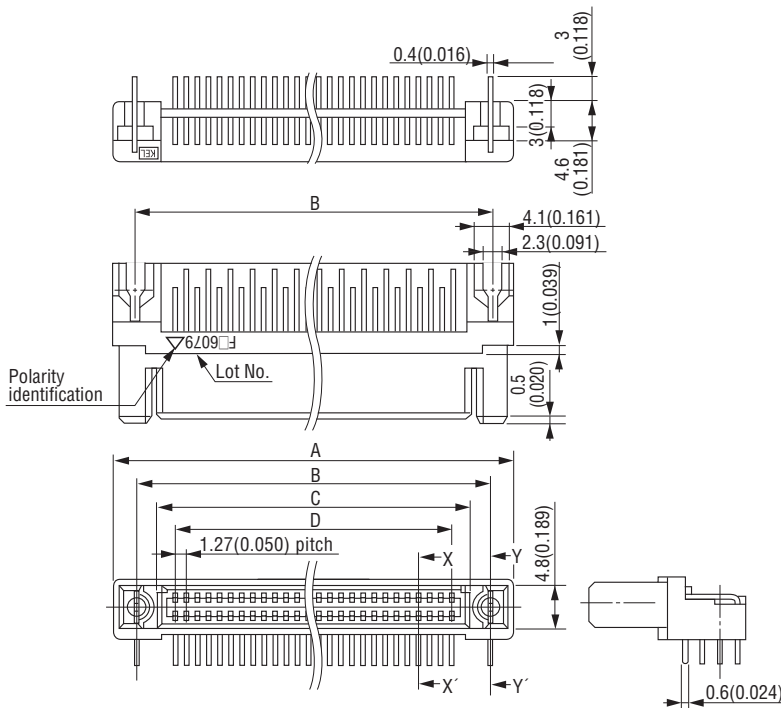
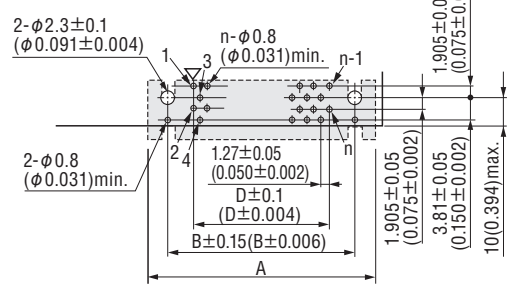
## Printed Circuit Board Layout (Component Side View)

For 20,32,40,52,60,68,80,100 pins

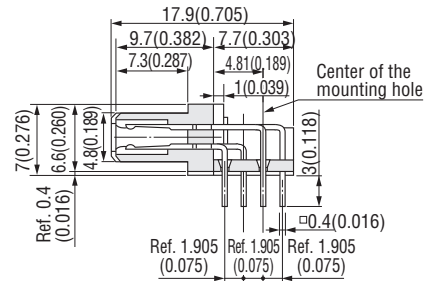

Recommended PCB Thickness  $t = 1.6 \pm 0.2$  (0.063 ± 0.008)

▽=Polarity identification "n" is number of contacts.

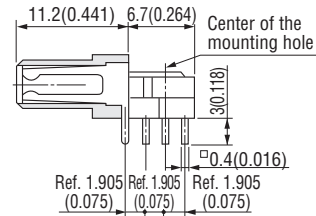
For 26,30,34,50 pins



## X-X' Cross Section



## Y-Y' Cross Section



Packaging style

Pipe

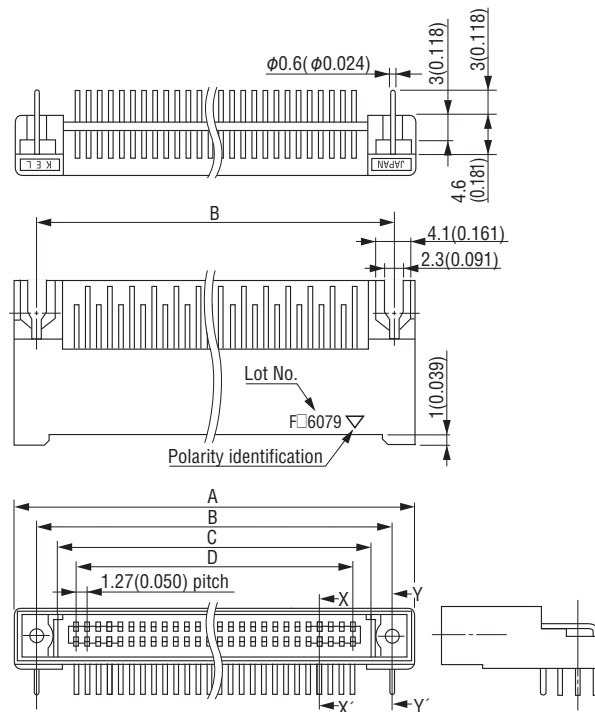
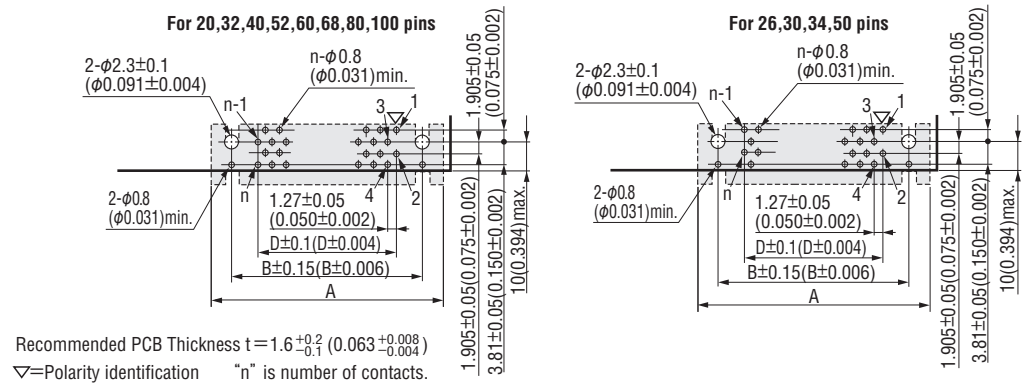
## Product Table / Dimensions

| No. of contacts | Part Number      | A                | B                | C                | D                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8803-020-170L□-F | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.43<br>(0.607) | 11.43<br>(0.450) | 20                  |
| 26              | 8803-026-170L□-F | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.24<br>(0.757) | 15.24<br>(0.600) | 17                  |
| 30              | 8803-030-170L□-F | 31.78<br>(1.251) | 26.67<br>(1.050) | 21.78<br>(0.857) | 17.78<br>(0.700) | 16                  |
| 32              | 8803-032-170L□-F | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.05<br>(0.907) | 19.05<br>(0.750) | 15                  |
| 34              | 8803-034-170L□-F | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.32<br>(0.957) | 20.32<br>(0.800) | 14                  |
| 40              | 8803-040-170L□-F | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.13<br>(1.107) | 24.13<br>(0.950) | 13                  |
| 50              | 8803-050-170L□-F | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.48<br>(1.357) | 30.48<br>(1.200) | 11                  |
| 52              | 8803-052-170L□-F | 45.75<br>(1.801) | 40.64<br>(1.593) | 35.75<br>(1.407) | 31.75<br>(1.250) | 11                  |
| 60              | 8803-060-170L□-F | 50.83<br>(2.001) | 45.72<br>(1.800) | 40.83<br>(1.607) | 36.83<br>(1.450) | 10                  |
| 68              | 8803-068-170L□-F | 55.91<br>(2.201) | 50.80<br>(2.000) | 45.91<br>(1.807) | 41.91<br>(1.650) | 9                   |
| 80              | 8803-080-170L□-F | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.53<br>(2.107) | 49.53<br>(1.950) | 8                   |
| 100             | 8803-100-170L□-F | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.23<br>(2.607) | 62.23<br>(2.450) | 6                   |

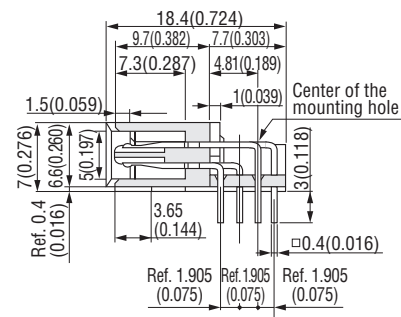
# 8813-□□□-170L□-F (Plug, With power contacts, Right angle)

Unit : mm(inch)

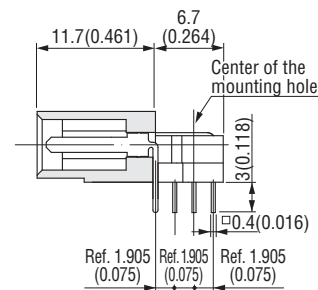
## ▶ Printed Circuit Board Layout (Component Side View)



## X-X' Cross Section



## Y-Y' Cross Section



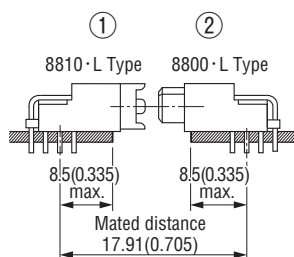
Packaging style

Pipe

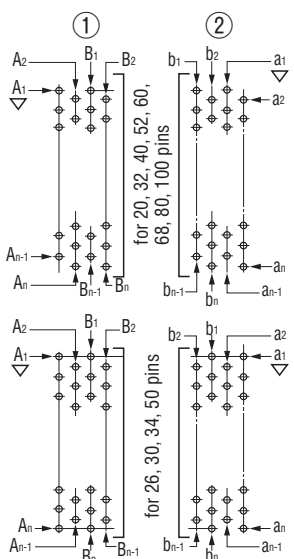
## ▶ Product Table / Dimensions

| No. of contacts | Part Number      | A                | B                | C                | D                | Number of packaging |
|-----------------|------------------|------------------|------------------|------------------|------------------|---------------------|
| 20              | 8813-020-170L□-F | 25.43<br>(1.001) | 20.32<br>(0.800) | 15.83<br>(0.623) | 11.43<br>(0.450) | 20                  |
| 26              | 8813-026-170L□-F | 29.24<br>(1.151) | 24.13<br>(0.950) | 19.64<br>(0.773) | 15.24<br>(0.600) | 17                  |
| 30              | 8813-030-170L□-F | 31.78<br>(1.251) | 26.67<br>(1.050) | 22.18<br>(0.873) | 17.78<br>(0.700) | 16                  |
| 32              | 8813-032-170L□-F | 33.05<br>(1.301) | 27.94<br>(1.100) | 23.45<br>(0.923) | 19.05<br>(0.750) | 15                  |
| 34              | 8813-034-170L□-F | 34.32<br>(1.351) | 29.21<br>(1.150) | 24.72<br>(0.973) | 20.32<br>(0.800) | 14                  |
| 40              | 8813-040-170L□-F | 38.13<br>(1.501) | 33.02<br>(1.300) | 28.53<br>(1.123) | 24.13<br>(0.950) | 13                  |
| 50              | 8813-050-170L□-F | 44.48<br>(1.751) | 39.37<br>(1.550) | 34.88<br>(1.373) | 30.48<br>(1.200) | 11                  |
| 52              | 8813-052-170L□-F | 45.75<br>(1.801) | 40.64<br>(1.593) | 36.15<br>(1.423) | 31.75<br>(1.250) | 11                  |
| 60              | 8813-060-170L□-F | 50.83<br>(2.001) | 45.72<br>(1.800) | 41.23<br>(1.623) | 36.83<br>(1.450) | 10                  |
| 68              | 8813-068-170L□-F | 55.91<br>(2.201) | 50.80<br>(2.000) | 46.31<br>(1.823) | 41.91<br>(1.650) | 9                   |
| 80              | 8813-080-170L□-F | 63.53<br>(2.501) | 58.42<br>(2.300) | 53.93<br>(2.123) | 49.53<br>(1.950) | 8                   |
| 100             | 8813-100-170L□-F | 76.23<br>(3.001) | 71.12<br>(2.800) | 66.63<br>(2.623) | 62.23<br>(2.450) | 6                   |

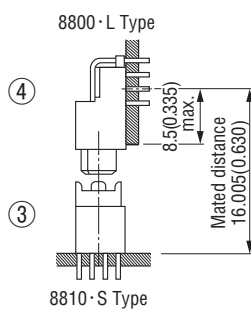
## Horizontal Mating



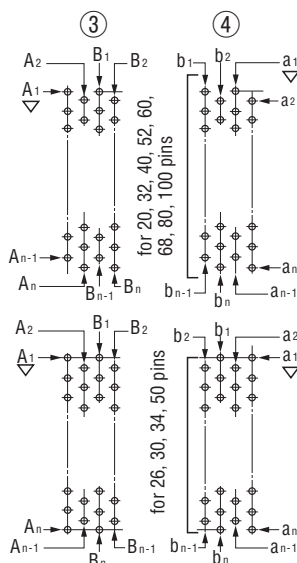
(Component Side View)



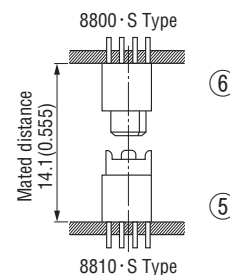
## Vertical mating



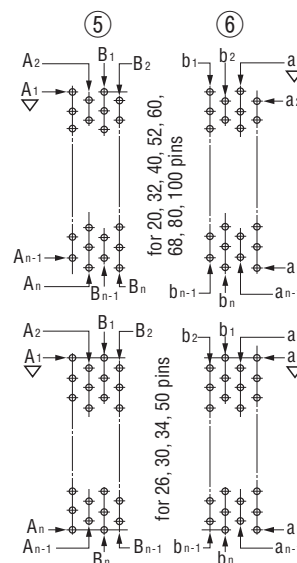
(Component Side View)



## Stacked mating



(Component Side View)



▽=Polarity identification