

**FEATURES**

- 1mm pitch, high density and high reliability
- Low profile (5mm stacking height)
- Coplanarity 0.15mm, Skew  $\pm 0.1$ mm
- 3 mating variations (horizontal, stack and vertical)
- SMT retention clips reduce the stress on SMT lead pins
- 75% smaller than existing half pitch connectors
- Positioning posts for placement by hand
- RoHS compliance

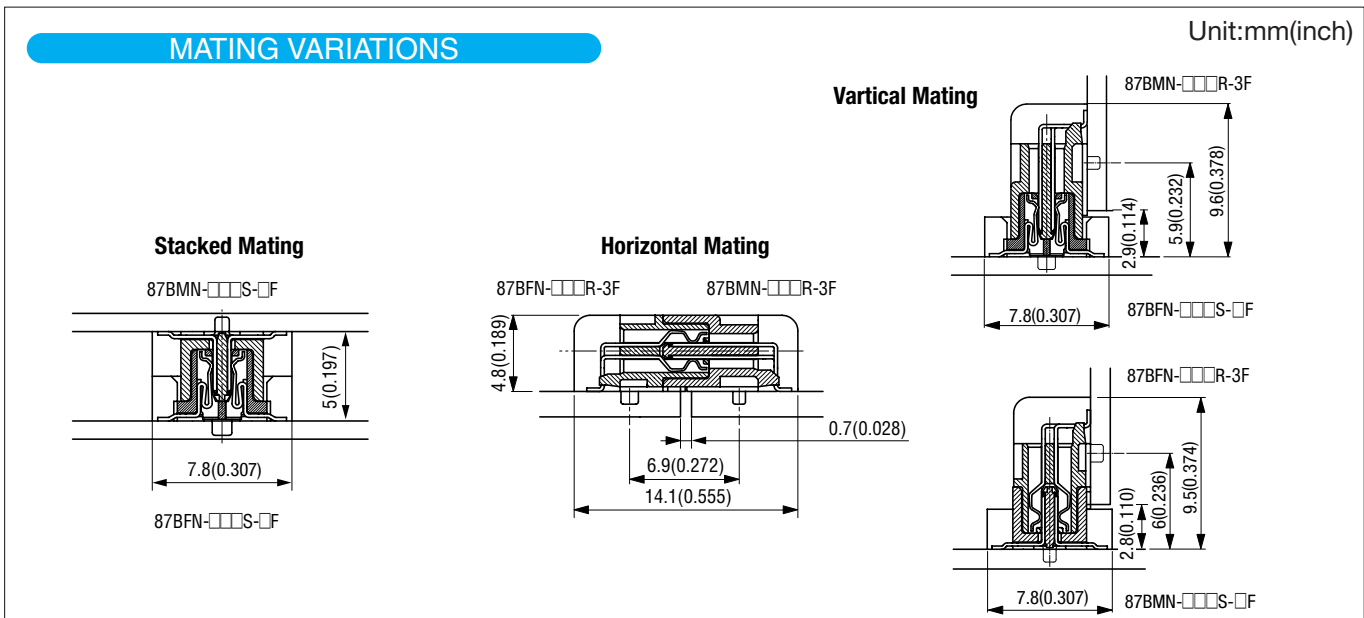
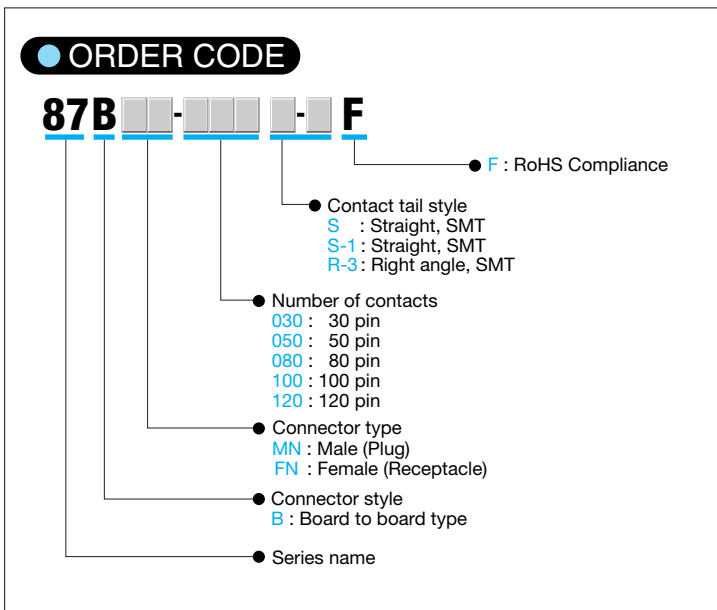
**SPECIFICATIONS**

- Insulator : Glass-filled LCP (UL 94V-0), White
- Contact material : Phosphor Bronze
- Plating : Contact area ; 0.05 $\mu$ m min. Gold over Nickel  
Terminal area ; 0.03 $\mu$ m min. Gold over Nickel
- Current rating : 0.5A per contact
- Contact resistance : 50m $\Omega$  max.
- Dielectric withstanding voltage : 315V AC for 1 minute
- Insulation resistance : 1,000M $\Omega$  min. at 500V DC
- Operating temperature : -55 $^{\circ}$ C to +85 $^{\circ}$ C

- \* Please order in multiples of quantity per packaging tray.
  - 30 and 50 pins — 80 pcs. / tray
  - 80,100 and 120 pins — 40 pcs. / tray
- \* Care is required in reflow working; please consult sales of our company in advance.



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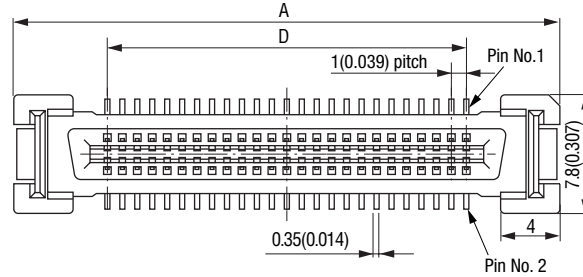


87BFN-□□□S-□F (Receptacle)

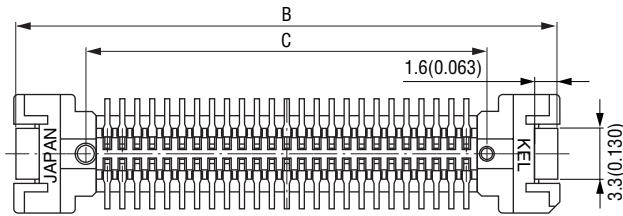
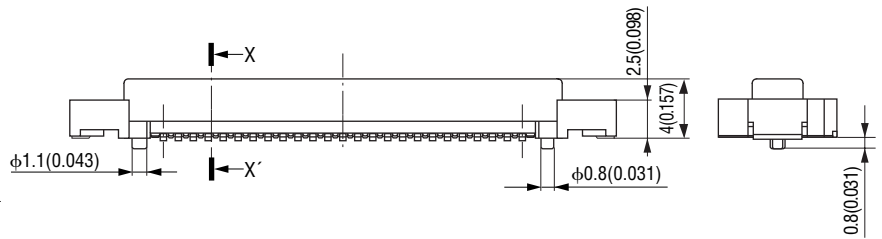
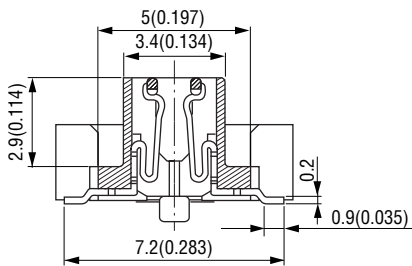
Receptacle (SMT Straight Type)



Unit:mm(inch)

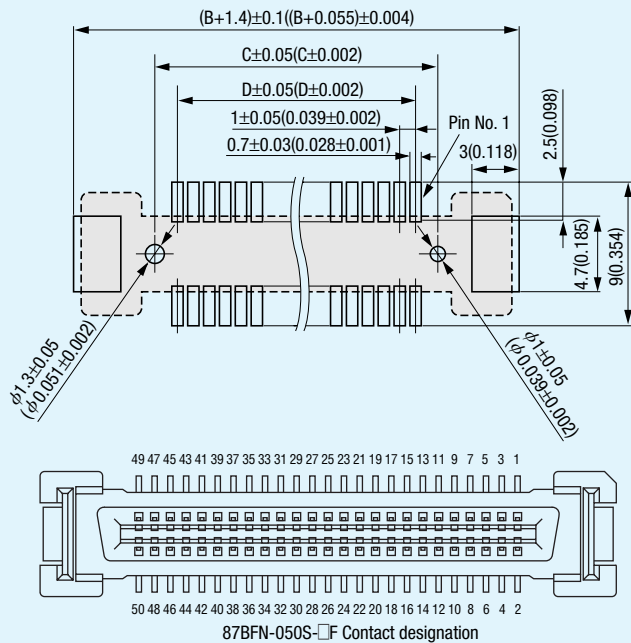


X-X' Cross Section



SMT lead thickness: T=0.2(0.008)  
Metal retention pad thickness: T=0.3(0.012)

Printed Circuit Board Layout (Component Side View)



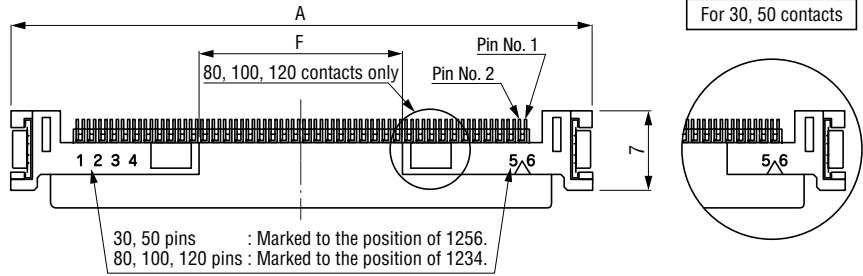
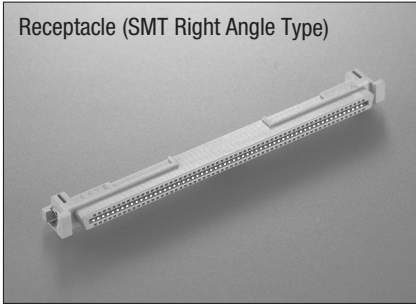
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D
30	87BFN-030S-□F	26.5 (1.043)	26.1 (1.028)	17.0 (0.669)	14.0 (0.551)
50	87BFN-050S-□F	36.5 (1.437)	36.1 (1.421)	27.0 (1.063)	24.0 (0.945)
80	87BFN-080S-□F	51.5 (2.028)	51.1 (2.012)	42.0 (1.654)	39.0 (1.535)
100	87BFN-100S-□F	61.5 (2.421)	61.1 (2.406)	52.0 (2.047)	49.0 (1.929)
120	87BFN-120S-□F	71.5 (2.815)	71.1 (2.799)	62.0 (2.441)	59.0 (2.323)

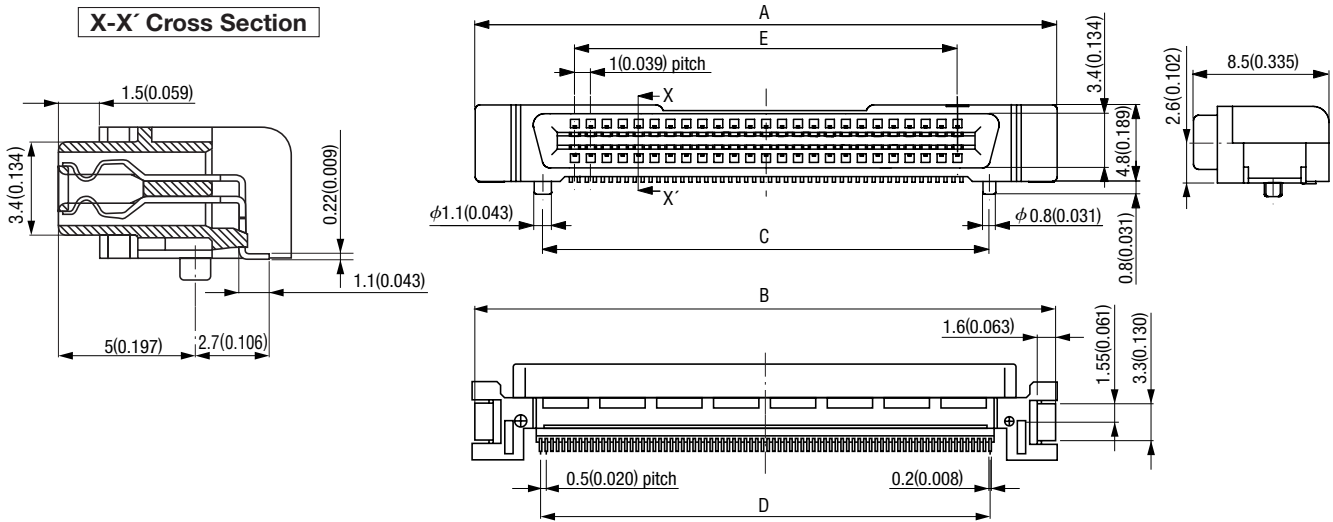
**87BFN-□□□R-3F (Receptacle)**

Unit:mm(inch)

Receptacle (SMT Right Angle Type)

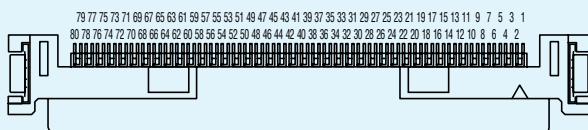
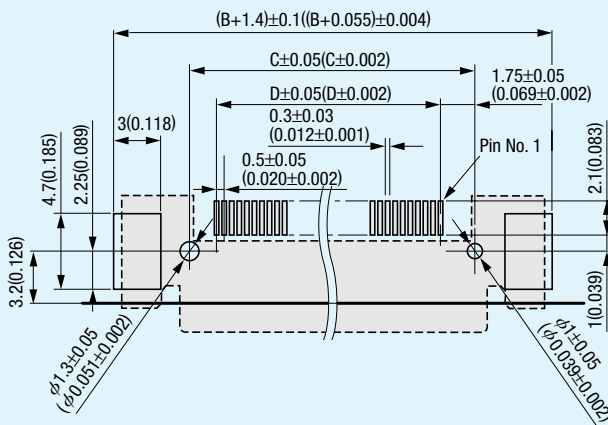


**X-X' Cross Section**



SMT lead thickness: T=0.22(0.009)  
Metal retention pad thickness: T=0.3(0.012)

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



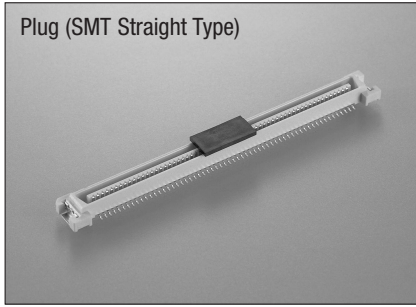
87BFN-050R-3F Contact designation

**Product Table / Dimensions**

No. of contacts	Part Number	A	B	C	D	E	F
30	87BFN-030R-3F	26.5 (1.043)	26.1 (1.028)	18.0 (0.709)	14.5 (0.571)	14.0 (0.551)	10.0 (0.394)
50	87BFN-050R-3F	36.5 (1.437)	36.1 (1.421)	28.0 (1.102)	24.5 (0.965)	24.0 (0.945)	15.0 (0.591)
80	87BFN-080R-3F	51.5 (2.028)	51.1 (2.012)	43.0 (1.693)	39.5 (1.555)	39.0 (1.535)	18.0 (0.709)
100	87BFN-100R-3F	61.5 (2.421)	61.1 (2.406)	53.0 (2.087)	49.5 (1.949)	49.0 (1.929)	18.0 (0.709)
120	87BFN-120R-3F	71.5 (2.815)	71.1 (2.779)	63.0 (2.480)	59.5 (2.343)	59.0 (2.323)	20.0 (0.787)

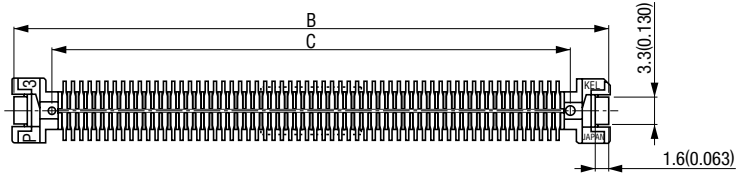
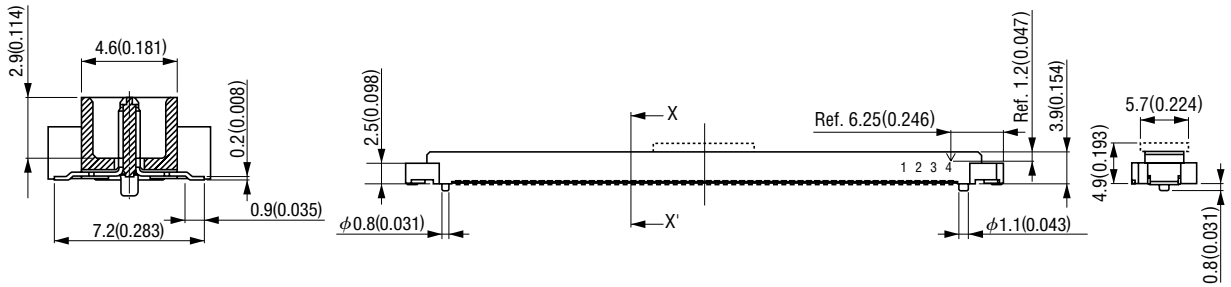
87BMN-□□□S-□F (Plug)

Plug (SMT Straight Type)



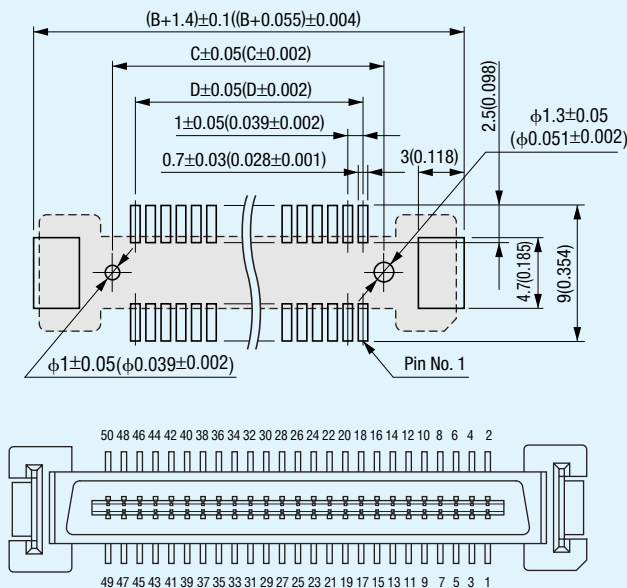
Unit:mm(inch)

X-X' Cross Section



SMT lead thickness: T=0.2(0.008)  
Metal retention pad thickness: T=0.3(0.012)

Printed Circuit Board Layout  
(Component Side View)



87BMN-050S-□F Contact designation

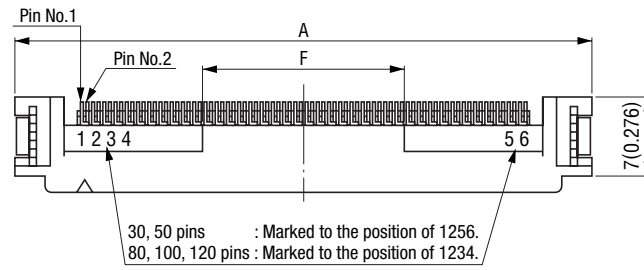
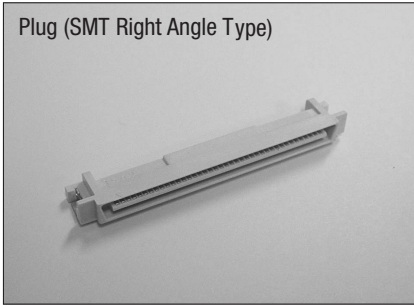
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E
30	87BMN-030S-□F	26.5 (1.043)	26.1 (1.028)	17.0 (0.669)	14.0 (0.551)	13.25 (0.522)
50	87BMN-050S-□F	36.5 (1.437)	36.1 (1.421)	27.0 (1.063)	24.0 (0.945)	18.25 (0.719)
80	87BMN-080S-□F	51.5 (2.028)	51.1 (2.012)	42.0 (1.654)	39.0 (1.535)	25.75 (1.014)
100	87BMN-100S-□F	61.5 (2.421)	61.1 (2.406)	52.0 (2.047)	49.0 (1.929)	30.75 (1.211)
120	87BMN-120S-□F	71.5 (2.815)	71.1 (2.799)	62.0 (2.441)	59.0 (2.323)	35.75 (1.407)

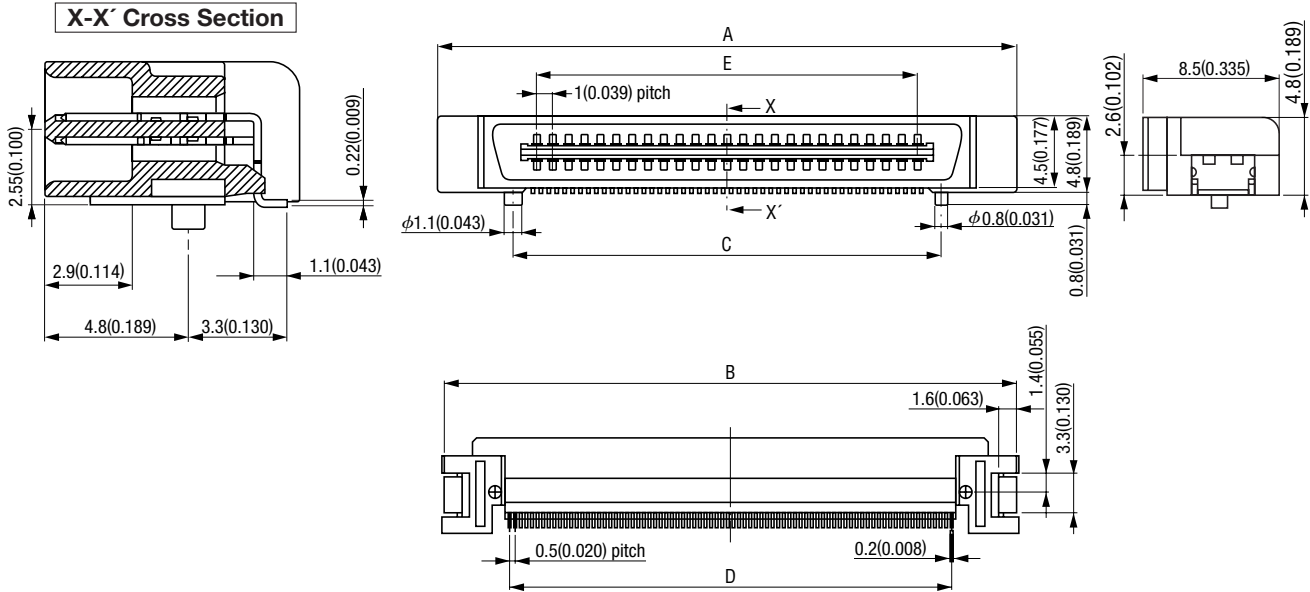
### 87BMN-□□□R-3F(Plug)

Unit:mm(inch)

Plug (SMT Right Angle Type)

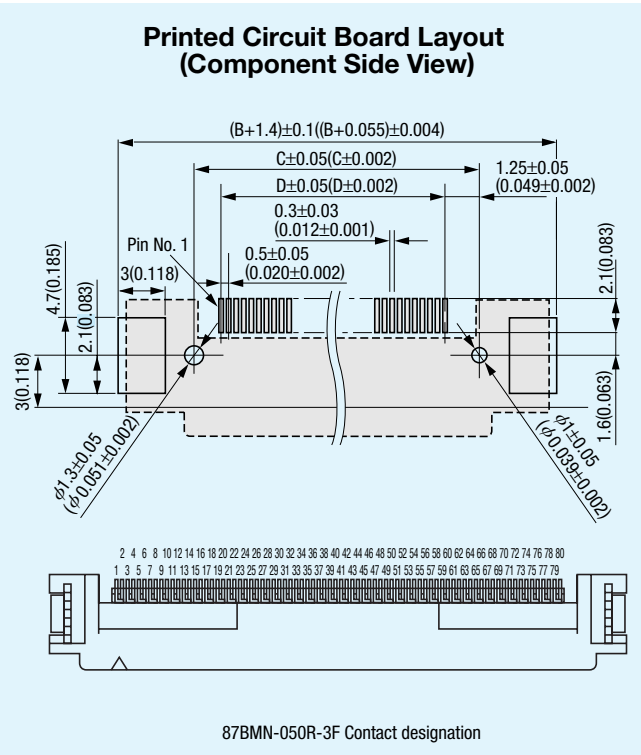


X-X' Cross Section



SMT lead thickness: T=0.22(0.009)  
Metal retention pad thickness: T=0.3(0.012)

Printed Circuit Board Layout  
(Component Side View)



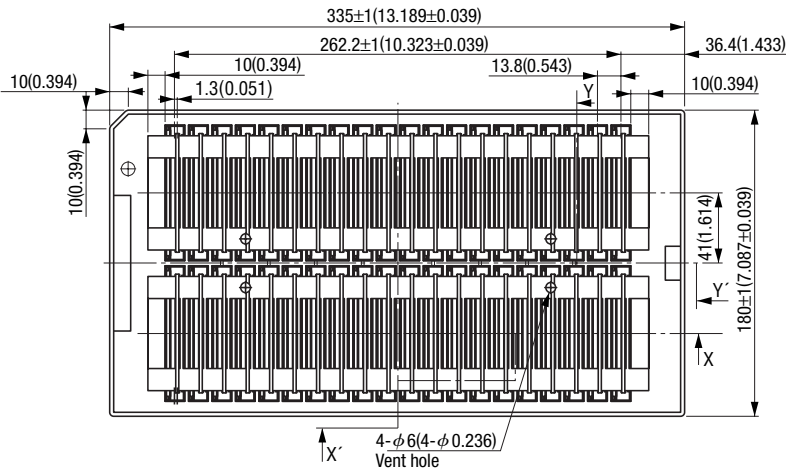
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F
30	87BMN-030R-3F	26.5 (1.043)	26.1 (1.028)	17.0 (0.669)	14.5 (0.571)	14.0 (0.551)	10.0 (0.394)
50	87BMN-050R-3F	36.5 (1.437)	36.1 (1.421)	27.0 (1.063)	24.5 (0.965)	24.0 (0.945)	15.0 (0.591)
80	87BMN-080R-3F	51.5 (2.028)	51.1 (2.012)	42.0 (1.654)	39.5 (1.555)	39.0 (1.535)	18.0 (0.709)
100	87BMN-100R-3F	61.5 (2.421)	61.1 (2.406)	52.0 (2.047)	49.5 (1.949)	49.0 (1.929)	18.0 (0.709)
120	87BMN-120R-3F	71.5 (2.815)	71.1 (2.799)	62.0 (2.441)	59.5 (2.343)	59.0 (2.323)	20.0 (0.787)

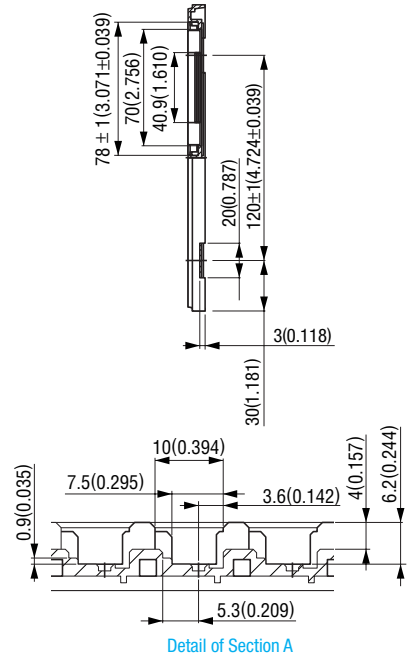
### For 87BFN-□□□R-3F (Right Angle Type)

- 30 and 50 pins — 80 pcs. / tray
- 80,100 and 120 pins — 40 pcs. / tray

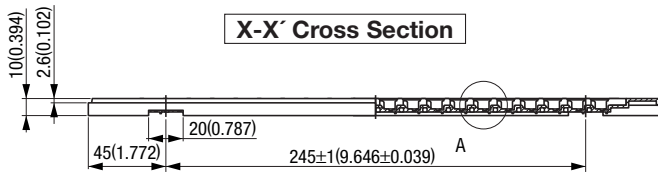
Unit:mm(inch)



Y-Y' Cross Section



X-X' Cross Section

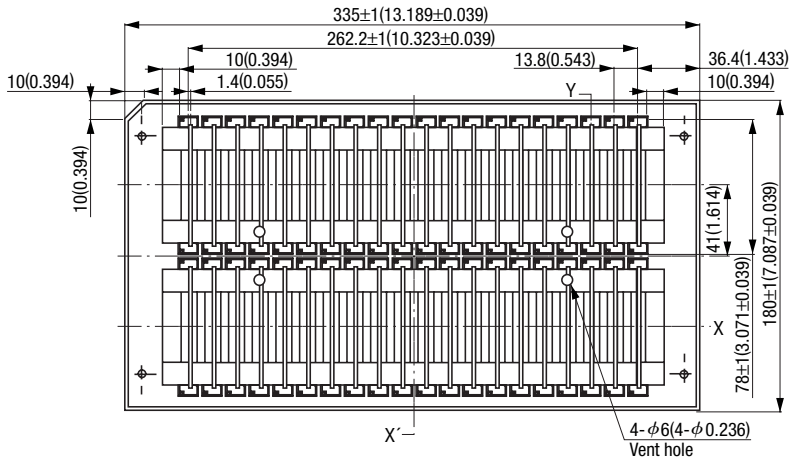


Detail of Section A

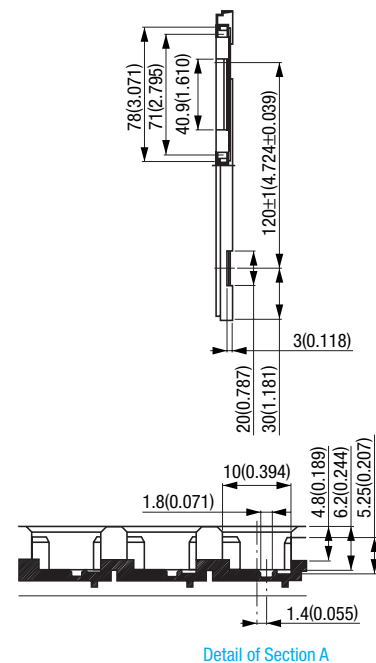
### For 87BMN-□□□R-3F (Right Angle Type)

- 30 and 50 pins — 80 pcs. / tray
- 80,100 and 120 pins — 40 pcs. / tray

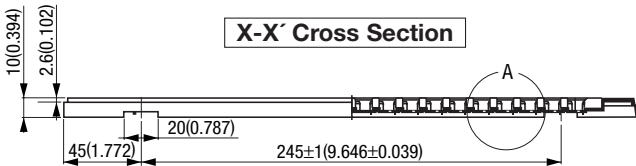
Unit:mm(inch)



Y-Y' Cross Section



X-X' Cross Section

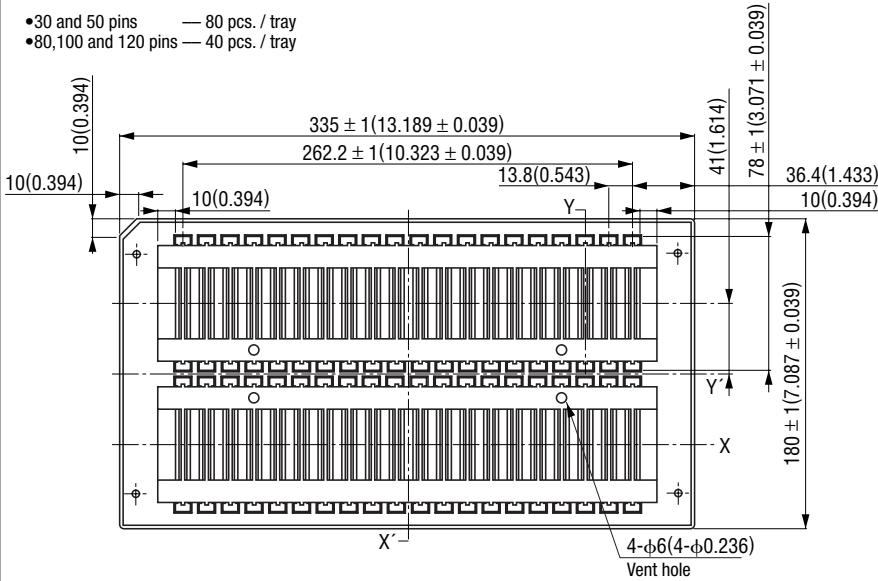
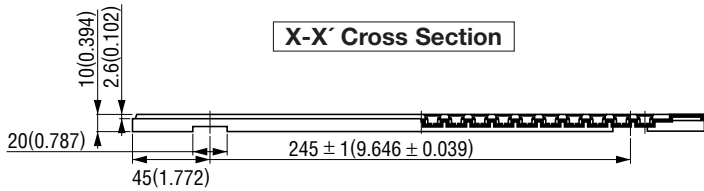


Detail of Section A

**For 87B□N-□□□S-□F (Straight Type)**

- 30 and 50 pins — 80 pcs. / tray
- 80, 100 and 120 pins — 40 pcs. / tray

Unit:mm(inch)


**X-X' Cross Section**

**Y-Y' Cross Section**
