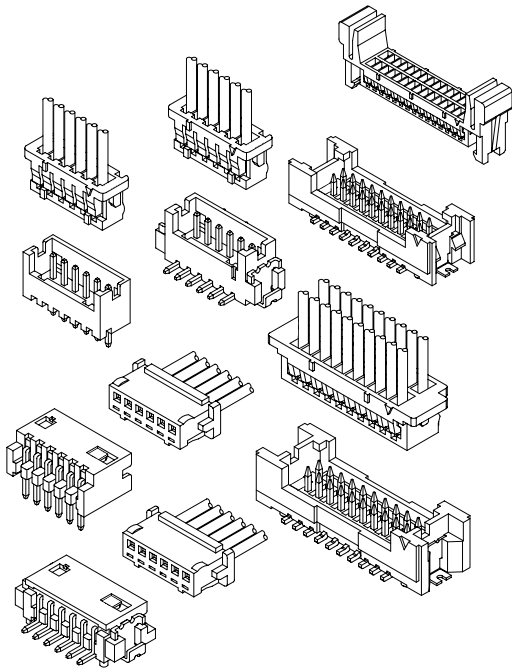


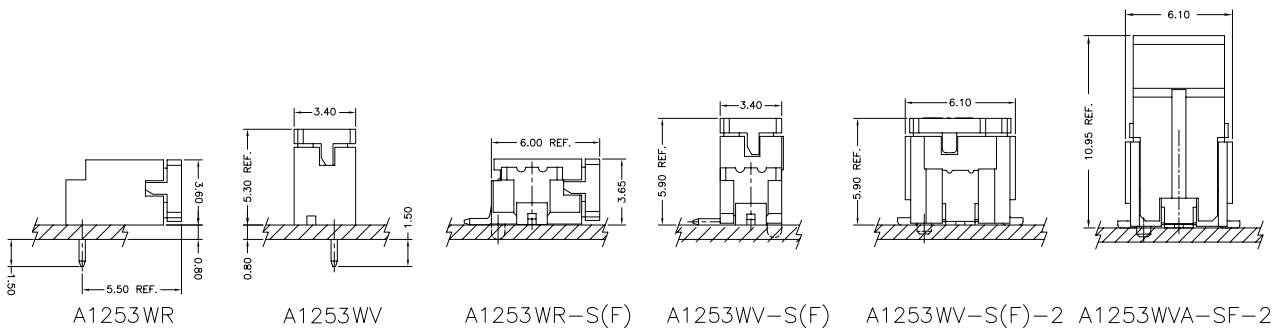


### Specifications

Current Rating: 1A AC,DC(Per Pin)  
Voltage Rating: 150V AC,DC(Per Pin)  
Temperature Range: -25°C ~ +85°C  
Contact Resistance: 30mΩ Max.  
Insulation Resistance: 500MΩ Min.  
Withstanding Voltage: 500V AC/minute

### Standards

### Assembly Layout



### Ordering Code

① ② ③ ④  
A1253-X X X

- ① Series No.
- ② Plating Code: T=Tin-Plated, G=Gold-Plated
- ③ Material: P=Phosphor Bronze
- ④ E=Stamping Before Plating

① ② ③ ④ ⑤  
A1253-X X-2X NP

- ① Series No.
- ② Housing Type: H=Housing
- ③ Blank=Normal Type, A=Lock Type
- ④ Blank=Single Row, 2X=Dual Row
- ⑤ No. of Circuits

① ② ③ ④ ⑤  
A1253 XX-XX-2X NP

- ① Series No.
- ② Connector Type: WV=Vertical, WR=Right Angle
- ③ Mounting Type: Blank=Through Hole  
SF=SMT with Post  
S=SMT
- ④ Blank=Single Row, 2X=Dual Row
- ⑤ No. of Circuits



# A1253 SERIES

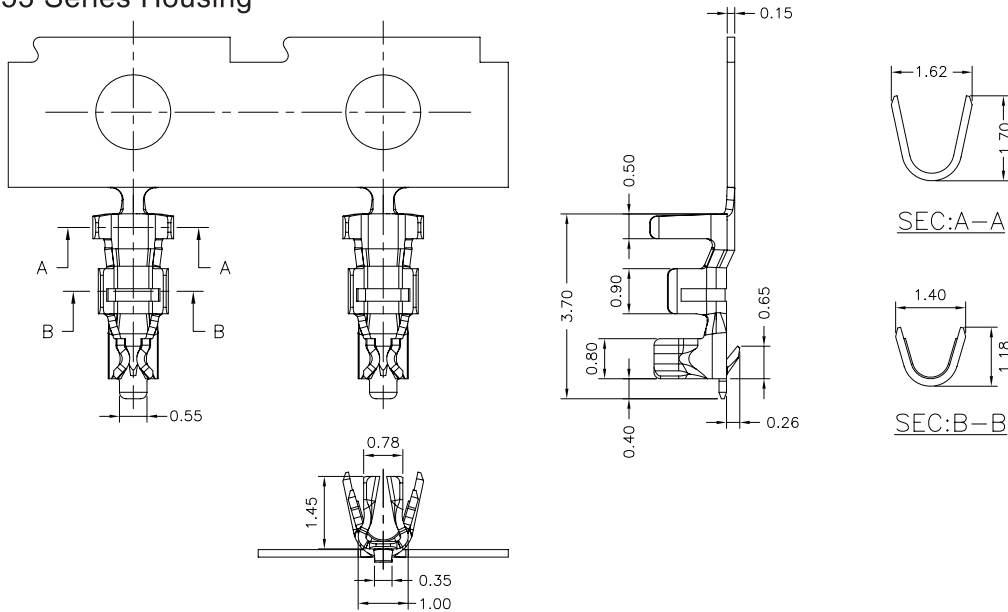
1.25mm Pitch Wire to Board Connector

## A 1253-XXX

1.25mm Pitch Crimp Terminal

### Reference Information:

\*Used in A1253 Series Housing



Ordering Information & Specifications:

Unit:mm

| Part No.    | Wire Range | Insulation O.D. | Material        | Finish      | Qty/Reel  |
|-------------|------------|-----------------|-----------------|-------------|-----------|
| A1253-TPE-A | AWG#26-#30 | 1.00mm(Max)     | Phosphor Bronze | Tin-Plated  | 10,000Pcs |
| A1253-GPE-A | AWG#26-#30 | 1.00mm(Max)     | Phosphor Bronze | Gold-Plated | 10,000Pcs |

Note:E-Stamping Before Plating

## A 1253H

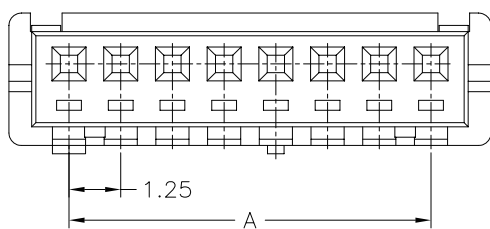
1.25mm Pitch Housing

### Reference Information:

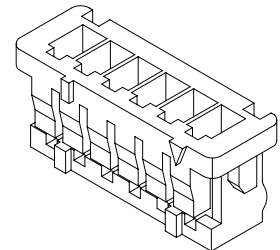
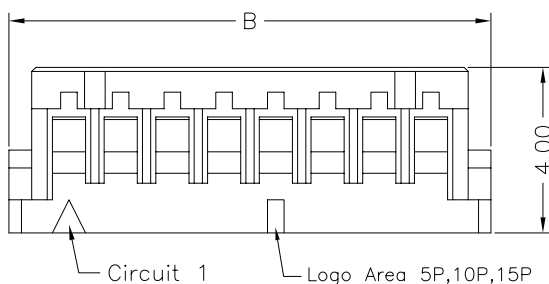
\*Material: Thermoplastic

\*Suitable A1253 Series Terminal

\*Mates with A1253 Series Wafer



|           |                           |   |   |    |   |    |   |
|-----------|---------------------------|---|---|----|---|----|---|
| A1253H-XP | X                         | X | X | XX | X | XX | X |
|           | ①                         | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ①         | Halogen Free or Not       |   |   |    |   |    |   |
| ②         | Material                  |   |   |    |   |    |   |
| ③         | Color                     |   |   |    |   |    |   |
| ④         | Plating Code for Contacts |   |   |    |   |    |   |
| ⑤         | Plating Code              |   |   |    |   |    |   |
| ⑥         | Option Code               |   |   |    |   |    |   |
| ⑦         | Packing Code              |   |   |    |   |    |   |



Dimensions:

| Circuit No. | Dimensions |       |
|-------------|------------|-------|
|             | A          | B     |
| 02          | 1.25       | 4.15  |
| 03          | 2.50       | 5.40  |
| 04          | 3.75       | 6.65  |
| 05          | 5.00       | 7.90  |
| 06          | 6.25       | 9.15  |
| 07          | 7.50       | 10.40 |
| 08          | 8.75       | 11.65 |
| 09          | 10.00      | 12.90 |
| 10          | 11.25      | 14.15 |
| 11          | 12.50      | 15.40 |
| 12          | 13.75      | 16.65 |
| 13          | 15.00      | 17.90 |
| 14          | 16.25      | 19.15 |
| 15          | 17.50      | 20.40 |

Unit:mm



### A1253WV

1.25mm Pitch 180° Wafer

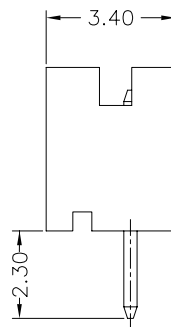
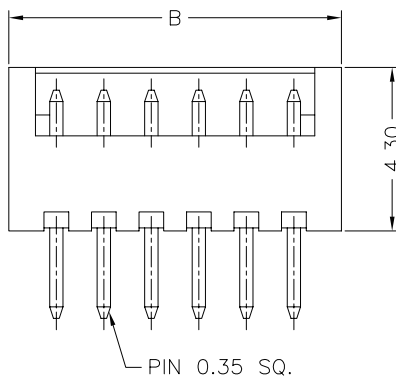
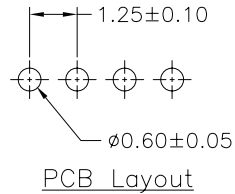
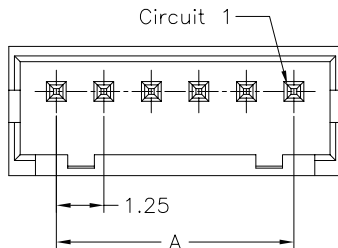
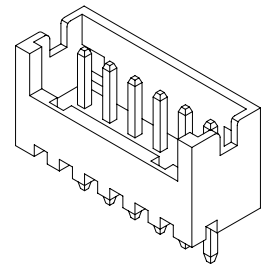
#### Reference Information:

\*Material: Pin: Copper Alloy

Wafer: Thermoplastic

\*Mates with A1253 Series Housing

|            |                           |   |   |    |   |    |   |
|------------|---------------------------|---|---|----|---|----|---|
| A1253WV-XP | X                         | X | X | XX | X | XX | X |
|            | ①                         | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ①          | Halogen Free or Not       |   |   |    |   |    |   |
| ②          | Material                  |   |   |    |   |    |   |
| ③          | Color                     |   |   |    |   |    |   |
| ④          | Plating Code for Contacts |   |   |    |   |    |   |
| ⑤          | Plating Code              |   |   |    |   |    |   |
| ⑥          | Option Code               |   |   |    |   |    |   |
| ⑦          | Packing Code              |   |   |    |   |    |   |



#### Dimensions:

| Circuit No. | Dimensions |       |
|-------------|------------|-------|
|             | A          | B     |
| 02          | 1.25       | 3.75  |
| 03          | 2.50       | 5.00  |
| 04          | 3.75       | 6.25  |
| 05          | 5.00       | 7.50  |
| 06          | 6.25       | 8.75  |
| 07          | 7.50       | 10.00 |
| 08          | 8.75       | 11.25 |
| 09          | 10.00      | 12.50 |
| 10          | 11.25      | 13.75 |
| 11          | 12.50      | 15.00 |
| 12          | 13.75      | 16.25 |
| 13          | 15.00      | 17.50 |
| 14          | 16.25      | 18.75 |
| 15          | 17.50      | 20.00 |

Unit:mm

### A1253WR

1.25mm Pitch 90° Wafer

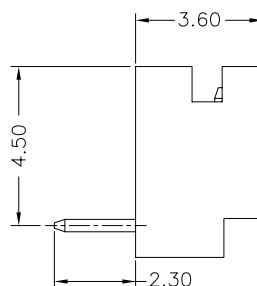
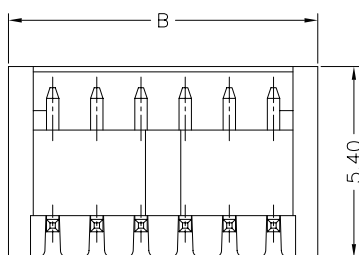
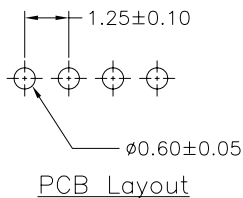
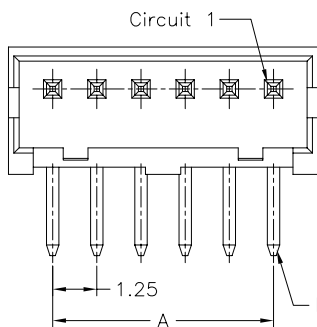
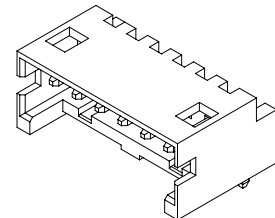
#### Reference Information:

\*Material: Pin: Copper Alloy

Wafer: Thermoplastic

\*Mates with A1253 Series Housing

|            |                           |   |   |    |   |    |   |
|------------|---------------------------|---|---|----|---|----|---|
| A1253WR-XP | X                         | X | X | XX | X | XX | X |
|            | ①                         | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ①          | Halogen Free or Not       |   |   |    |   |    |   |
| ②          | Material                  |   |   |    |   |    |   |
| ③          | Color                     |   |   |    |   |    |   |
| ④          | Plating Code for Contacts |   |   |    |   |    |   |
| ⑤          | Plating Code              |   |   |    |   |    |   |
| ⑥          | Option Code               |   |   |    |   |    |   |
| ⑦          | Packing Code              |   |   |    |   |    |   |



#### Dimensions:

| Circuit No. | Dimensions |       |
|-------------|------------|-------|
|             | A          | B     |
| 02          | 1.25       | 3.75  |
| 03          | 2.50       | 5.00  |
| 04          | 3.75       | 6.25  |
| 05          | 5.00       | 7.50  |
| 06          | 6.25       | 8.75  |
| 07          | 7.50       | 10.00 |
| 08          | 8.75       | 11.25 |
| 09          | 10.00      | 12.50 |
| 10          | 11.25      | 13.75 |
| 11          | 12.50      | 15.00 |
| 12          | 13.75      | 16.25 |
| 13          | 15.00      | 17.50 |
| 14          | 16.25      | 18.75 |
| 15          | 17.50      | 20.00 |

Unit:mm



# A1253 SERIES

1.25mm Pitch Wire to Board Connector

## A1253WV-S

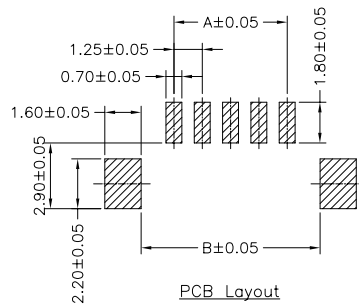
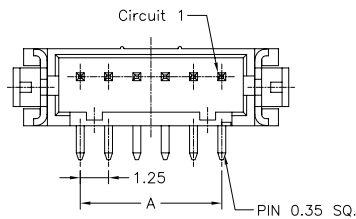
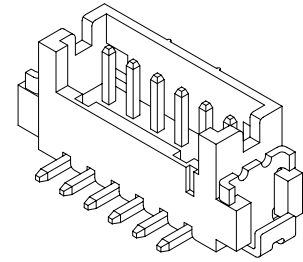
1.25mm Pitch 180° Wafer - SMT Type

### Reference Information:

\*Material: Pin: Copper Alloy  
Solder Tabs: Copper Alloy  
Wafer: Thermoplastic  
Cap: Thermoplastic

\*Mates with A1253 Series Housing

|                             |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
|-----------------------------|--|--|--|--|--|--|--|---|---|---|----|---|----|---|
| A1253WV-S-XP                |  |  |  |  |  |  |  | X | X | X | XX | X | XX | X |
|                             |  |  |  |  |  |  |  | ① | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ① Halogen Free or Not       |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ② Material                  |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ③ Color                     |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ④ Plating Code for Contacts |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ⑤ Plating Code              |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ⑥ Option Code               |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ⑦ Packing Code              |  |  |  |  |  |  |  |   |   |   |    |   |    |   |



Dimensions:

| Circuit No. | Dimensions |       |       |
|-------------|------------|-------|-------|
|             | A          | B     | C     |
| 02          | 1.25       | 4.15  | 6.25  |
| 03          | 2.50       | 5.40  | 7.50  |
| 04          | 3.75       | 6.65  | 8.75  |
| 05          | 5.00       | 7.90  | 10.00 |
| 06          | 6.25       | 9.15  | 11.25 |
| 07          | 7.50       | 10.40 | 12.50 |
| 08          | 8.75       | 11.65 | 13.75 |
| 09          | 10.00      | 12.90 | 15.00 |
| 10          | 11.25      | 14.15 | 16.25 |
| 11          | 12.50      | 15.40 | 17.50 |
| 12          | 13.75      | 16.65 | 18.75 |
| 13          | 15.00      | 17.90 | 20.00 |
| 14          | 16.25      | 19.15 | 21.25 |
| 15          | 17.50      | 20.40 | 22.50 |

Unit:mm

## A1253WR-S

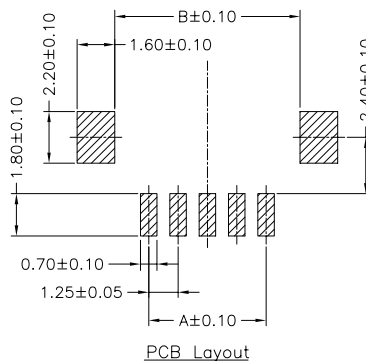
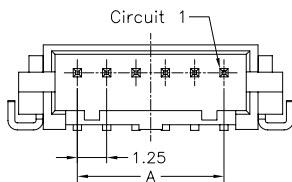
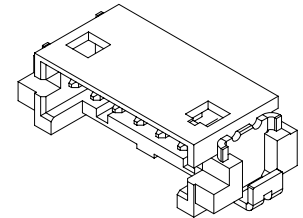
1.25mm Pitch 90° Wafer - SMT Type

### Reference Information:

\*Material: Pin: Copper Alloy  
Solder Tabs: Copper Alloy  
Wafer: Thermoplastic

\*Mates with A1253 Series Housing

|                             |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
|-----------------------------|--|--|--|--|--|--|--|---|---|---|----|---|----|---|
| A1253WR-S-XP                |  |  |  |  |  |  |  | X | X | X | XX | X | XX | X |
|                             |  |  |  |  |  |  |  | ① | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ① Halogen Free or Not       |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ② Material                  |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ③ Color                     |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ④ Plating Code for Contacts |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ⑤ Plating Code              |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ⑥ Option Code               |  |  |  |  |  |  |  |   |   |   |    |   |    |   |
| ⑦ Packing Code              |  |  |  |  |  |  |  |   |   |   |    |   |    |   |



Dimensions:

| Circuit No. | Dimensions |       |       |
|-------------|------------|-------|-------|
|             | A          | B     | C     |
| 02          | 1.25       | 4.15  | 6.25  |
| 03          | 2.50       | 5.40  | 7.50  |
| 04          | 3.75       | 6.65  | 8.75  |
| 05          | 5.00       | 7.90  | 10.00 |
| 06          | 6.25       | 9.15  | 11.25 |
| 07          | 7.50       | 10.40 | 12.50 |
| 08          | 8.75       | 11.65 | 13.75 |
| 09          | 10.00      | 12.90 | 15.00 |
| 10          | 11.25      | 14.15 | 16.25 |
| 11          | 12.50      | 15.40 | 17.50 |
| 12          | 13.75      | 16.65 | 18.75 |
| 13          | 15.00      | 17.90 | 20.00 |
| 14          | 16.25      | 19.15 | 21.25 |
| 15          | 17.50      | 20.40 | 22.50 |

Unit:mm



### A1253WV-SF

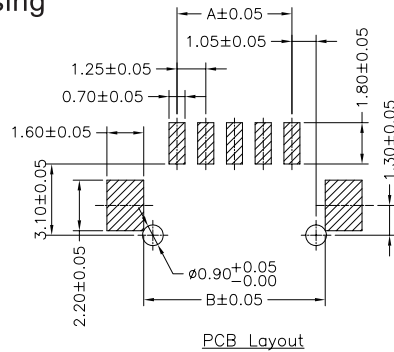
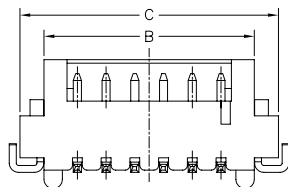
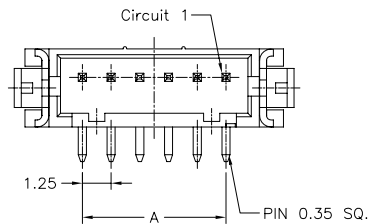
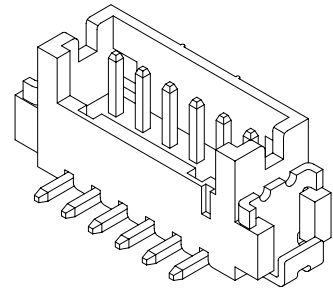
1.25mm Pitch 180° Wafer with Post - SMT Type

#### Reference Information:

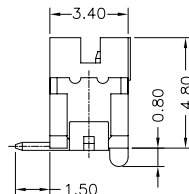
\*Material: Pin: Copper Alloy  
Solder Tabs: Copper Alloy  
Wafer: Thermoplastic  
Cap: Thermoplastic

\*Mates with A1253 Series Housing

|               |                           |   |   |    |   |    |   |
|---------------|---------------------------|---|---|----|---|----|---|
| A1253WV-SF-XP | X                         | X | X | XX | X | XX | X |
|               | ①                         | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ①             | Halogen Free or Not       |   |   |    |   |    |   |
| ②             | Material                  |   |   |    |   |    |   |
| ③             | Color                     |   |   |    |   |    |   |
| ④             | Plating Code for Contacts |   |   |    |   |    |   |
| ⑤             | Plating Code              |   |   |    |   |    |   |
| ⑥             | Option Code               |   |   |    |   |    |   |
| ⑦             | Packing Code              |   |   |    |   |    |   |



PCB Layout



#### Dimensions:

| Circuit No. | Dimensions |       |       |
|-------------|------------|-------|-------|
|             | A          | B     | C     |
| 02          | 1.25       | 4.15  | 6.25  |
| 03          | 2.50       | 5.40  | 7.50  |
| 04          | 3.75       | 6.65  | 8.75  |
| 05          | 5.00       | 7.90  | 10.00 |
| 06          | 6.25       | 9.15  | 11.25 |
| 07          | 7.50       | 10.40 | 12.50 |
| 08          | 8.75       | 11.65 | 13.75 |
| 09          | 10.00      | 12.90 | 15.00 |
| 10          | 11.25      | 14.15 | 16.25 |
| 11          | 12.50      | 15.40 | 17.50 |
| 12          | 13.75      | 16.65 | 18.75 |
| 13          | 15.00      | 17.90 | 20.00 |
| 14          | 16.25      | 19.15 | 21.25 |
| 15          | 17.50      | 20.40 | 22.50 |

Unit:mm

### A1253WR-SF

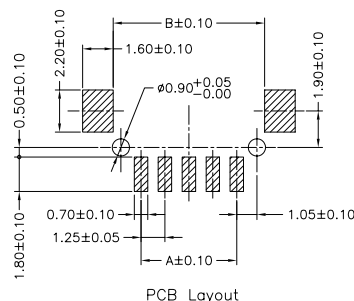
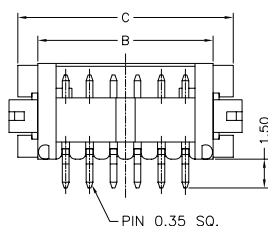
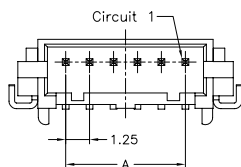
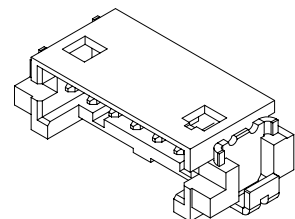
1.25mm Pitch 90° Wafer with Post - SMT Type

#### Reference Information:

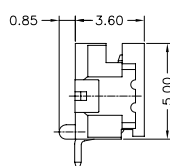
\*Material: Pin: Copper Alloy  
Solder Tabs: Copper Alloy  
Wafer: Thermoplastic

\*Mates with A1253 Series Housing

|               |                           |   |   |    |   |    |   |
|---------------|---------------------------|---|---|----|---|----|---|
| A1253WR-SF-XP | X                         | X | X | XX | X | XX | X |
|               | ①                         | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ①             | Halogen Free or Not       |   |   |    |   |    |   |
| ②             | Material                  |   |   |    |   |    |   |
| ③             | Color                     |   |   |    |   |    |   |
| ④             | Plating Code for Contacts |   |   |    |   |    |   |
| ⑤             | Plating Code              |   |   |    |   |    |   |
| ⑥             | Option Code               |   |   |    |   |    |   |
| ⑦             | Packing Code              |   |   |    |   |    |   |



PCB Layout



#### Dimensions:

| Circuit No. | Dimensions |       |       |
|-------------|------------|-------|-------|
|             | A          | B     | C     |
| 02          | 1.25       | 4.15  | 6.25  |
| 03          | 2.50       | 5.40  | 7.50  |
| 04          | 3.75       | 6.65  | 8.75  |
| 05          | 5.00       | 7.90  | 10.00 |
| 06          | 6.25       | 9.15  | 11.25 |
| 07          | 7.50       | 10.40 | 12.50 |
| 08          | 8.75       | 11.65 | 13.75 |
| 09          | 10.00      | 12.90 | 15.00 |
| 10          | 11.25      | 14.15 | 16.25 |
| 11          | 12.50      | 15.40 | 17.50 |
| 12          | 13.75      | 16.65 | 18.75 |
| 13          | 15.00      | 17.90 | 20.00 |
| 14          | 16.25      | 19.15 | 21.25 |
| 15          | 17.50      | 20.40 | 22.50 |

Unit:mm



# A1253 SERIES

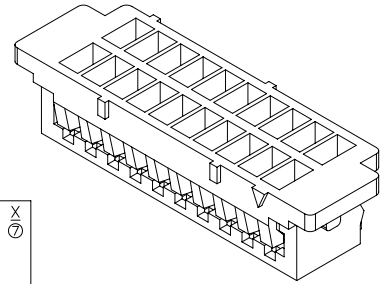
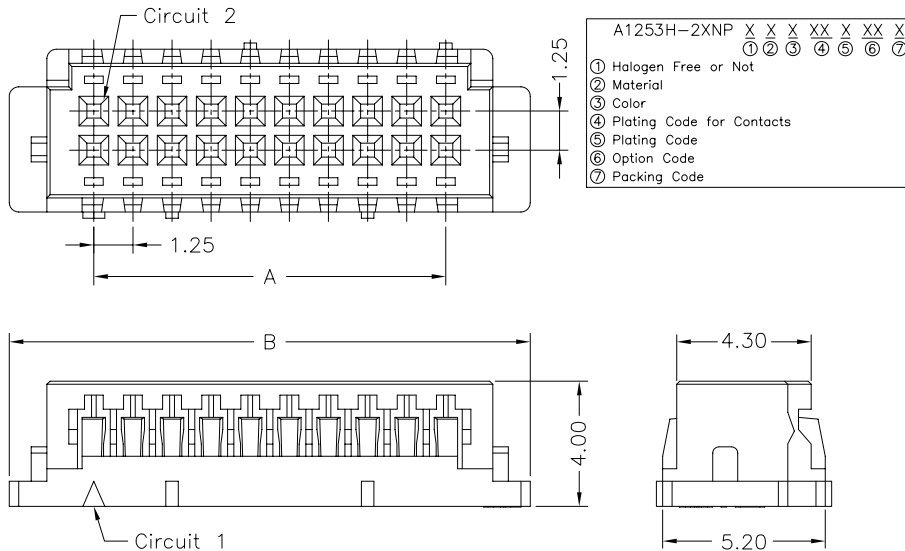
1.25mm Pitch Wire to Board Connector

## A1253H-2

1.25mm Pitch Dual Row Housing

### Reference Information:

- \*Material: Thermoplastic
- \*Suitable A1253 Series Terminal
- \*Mates with A1253 Series Dual Row Wafer



### Dimensions:

| Circuit No. | Dimensions |       |
|-------------|------------|-------|
|             | A          | B     |
| 2X05        | 5.00       | 10.40 |
| 2X06        | 6.25       | 11.65 |
| 2X07        | 7.50       | 12.90 |
| 2X10        | 11.25      | 16.65 |
| 2X15        | 17.50      | 22.90 |
| 2X17        | 20.00      | 25.40 |
| 2X18        | 21.25      | 26.65 |
| 2X20        | 23.75      | 29.15 |
| 2X21        | 25.00      | 30.40 |
| 2X25        | 30.00      | 35.40 |

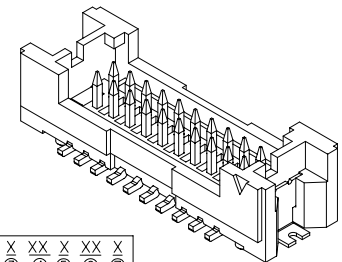
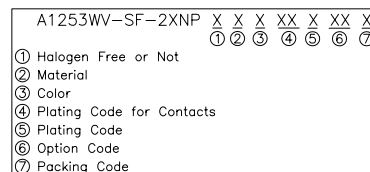
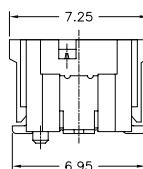
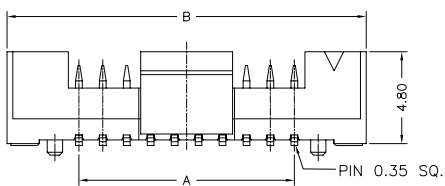
Unit:mm

## A1253WV-SF-2

1.25mm Pitch 180° Dual Row Wafer with Post-SMT Type

### Reference Information:

- \*Material: Pin: Copper Alloy  
Solder Tabs: Copper Alloy  
Wafer: Thermoplastic  
Cap: Thermoplastic
- \*Mates with A1253 Series Dual Row Housing



### Dimensions:

| Circuit No. | Dimensions |       |       |
|-------------|------------|-------|-------|
|             | A          | B     | C     |
| 2X05        | 5.00       | 12.25 | 7.50  |
| 2X06        | 6.25       | 13.75 | 8.75  |
| 2X07        | 7.50       | 15.00 | 10.00 |
| 2X10        | 11.25      | 18.75 | 13.75 |
| 2X15        | 17.50      | 25.00 | 20.00 |
| 2X17        | 20.00      | 27.50 | 22.50 |
| 2X18        | 21.25      | 28.75 | 23.75 |
| 2X20        | 23.75      | 31.25 | 26.25 |
| 2X21        | 25.00      | 32.50 | 27.50 |
| 2X25        | 30.00      | 37.50 | 32.50 |

Unit:mm

A 1 2 5 3 H A - 2

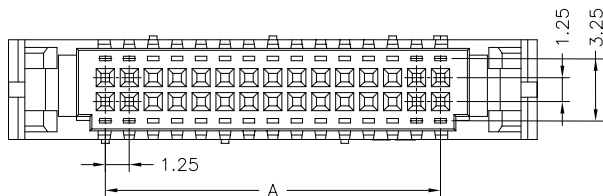
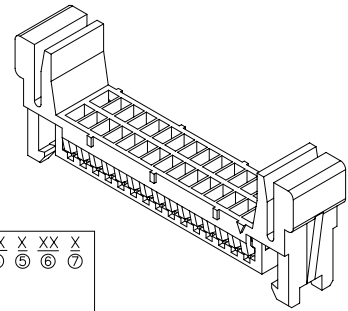
—1.25mm Pitch Dual Row Housing - Lock Type

### Reference Information:

\*Material: Thermoplastic

\*Suitable A1253 Series Terminal

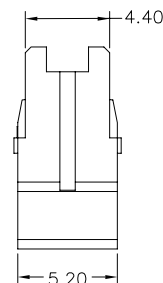
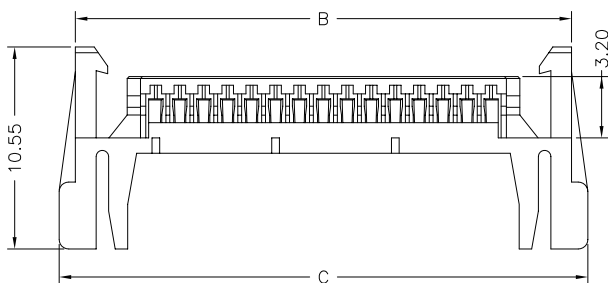
\*Mates with A1253WVA Series Dual Row Wafer



A1253HA-2XNP    X   X   X   XX   X   XX   X

①   ②   ③   ④   ⑤   ⑥   ⑦

① Halogen Free or Not  
② Material  
③ Color  
④ Plating Code for Contacts  
⑤ Plating Code  
⑥ Option Code  
⑦ Packing Code



Dimensions:

| Circuit No. | Dimensions |       |       |
|-------------|------------|-------|-------|
|             | A          | B     | C     |
| 2X05        | 5.00       | 13.40 | 15.10 |
| 2X06        | 6.25       | 14.65 | 16.35 |
| 2X07        | 7.50       | 15.90 | 17.60 |
| 2X10        | 11.25      | 19.65 | 21.35 |
| 2X15        | 17.50      | 25.90 | 27.60 |
| 2X17        | 20.00      | 28.40 | 30.10 |
| 2X18        | 21.25      | 29.65 | 31.35 |
| 2X20        | 23.75      | 32.15 | 33.85 |
| 2X21        | 25.00      | 33.40 | 35.10 |

Unit:mm

A1253WVA-SF-2

1.25mm Pitch 180° Dual Row Wafer with Post-SMT Type

### Reference Information:

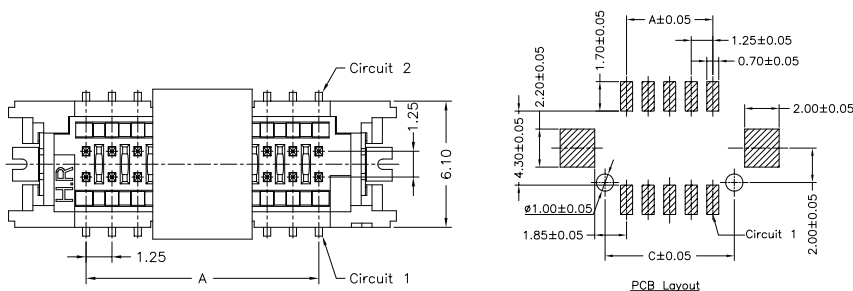
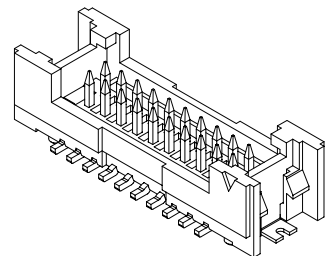
\*Material: Pin: Copper Alloy

Solder Tabs: Copper Alloy

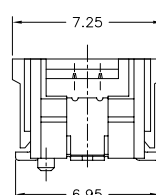
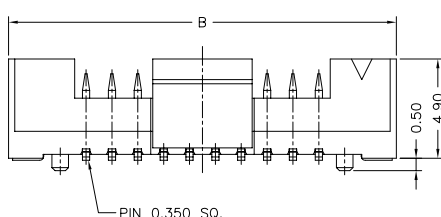
Wafer: Thermoplastic

Cap: Thermoplastic

\*Mates with A1253HA Series Dual Row Housing



|                  |                           |   |   |   |    |   |    |   |
|------------------|---------------------------|---|---|---|----|---|----|---|
| A1253WVA-SF-2XNP |                           | X | X | X | XX | X | XX | X |
|                  |                           | ① | ② | ③ | ④  | ⑤ | ⑥  | ⑦ |
| ①                | Halogen Free or Not       |   |   |   |    |   |    |   |
| ②                | Material                  |   |   |   |    |   |    |   |
| ③                | Color                     |   |   |   |    |   |    |   |
| ④                | Plating Code for Contacts |   |   |   |    |   |    |   |
| ⑤                | Plating Code              |   |   |   |    |   |    |   |
| ⑥                | Option Code               |   |   |   |    |   |    |   |
| ⑦                | Packing Code              |   |   |   |    |   |    |   |



Dimensions:

| Circuit No. | Dimensions |       |       |
|-------------|------------|-------|-------|
|             | A          | B     | C     |
| 2X05        | 5.00       | 12.25 | 7.50  |
| 2X06        | 6.25       | 13.75 | 8.75  |
| 2X07        | 7.50       | 15.00 | 10.00 |
| 2X10        | 11.25      | 18.75 | 13.75 |
| 2X15        | 17.50      | 25.00 | 20.00 |
| 2X17        | 20.00      | 27.50 | 22.50 |
| 2X18        | 21.25      | 28.75 | 23.75 |
| 2X20        | 23.75      | 31.25 | 26.25 |
| 2X21        | 25.00      | 32.50 | 27.50 |

Unit:mm