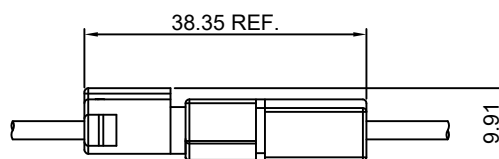


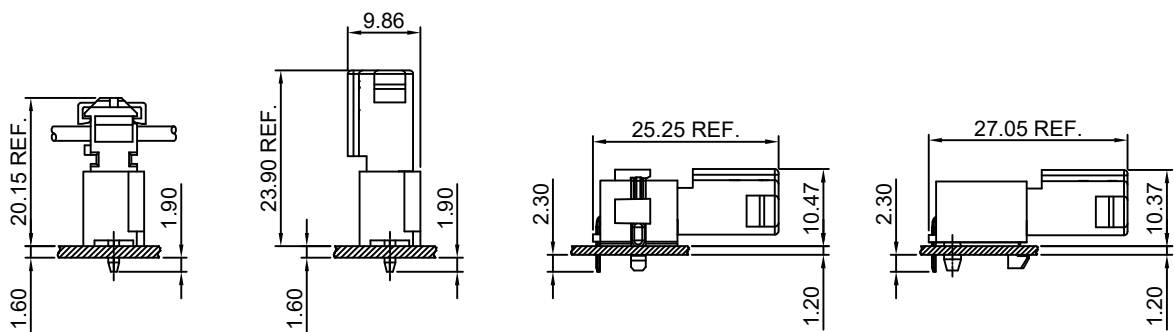
## Specifications

- Current rating: 7A AC, DC
- Voltage rating: 250V AC, DC
- Temperature range: -25°C ~ +85°C
- Contact resistance: 10mΩ Max.
- Insulation resistance: 1000MΩ Min.
- Withstanding voltage: 1500V AC/minute
- \*Compliant with RoHS and REACH\*
- \*Meet the HF/Halogen Free, GWT/Glow wire Test (IEC60335-1) request, need to customize\*
- \*Contact HDGC for details\*

## Assembly layout



WIRE TO WIRE TYPE



WIRE TO BOARD TYPE



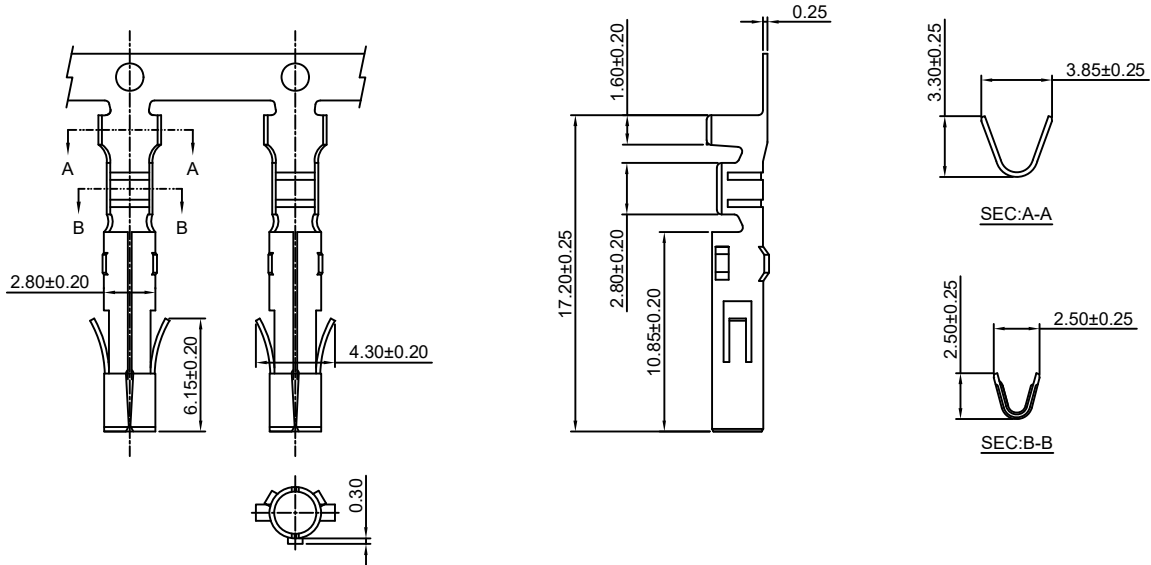
## HDGC5083 Series 5.08mm (.200") Pitch Wire to Board and Wire to Wire Connector

### HDGC5083F-T

5.08mm pitch Crimp Terminal

**Reference Informations:**

\*Used in HDGC5083HF-XP, HDGC7110HF-2P series Housing



Ordering information & Specifications:

Unit:mm

| Part NO.     | Wire Range | Insulation O.D. | Material        | Finish           | Qty/reel  |
|--------------|------------|-----------------|-----------------|------------------|-----------|
| HDGC5083F-TB | AWG#18-#24 | 2.50mm(max)     | Brass           | Tin over Nickel  | 7,000 PCS |
| HDGC5083F-TP | AWG#18-#24 | 2.50mm(max)     | Phosphor Bronze | Tin over Nickel  | 7,000 PCS |
| HDGC5083F-GB | AWG#18-#24 | 2.50mm(max)     | Brass           | Gold over Nickel | 7,000 PCS |
| HDGC5083F-GP | AWG#18-#24 | 2.50mm(max)     | Phosphor Bronze | Gold over Nickel | 7,000 PCS |

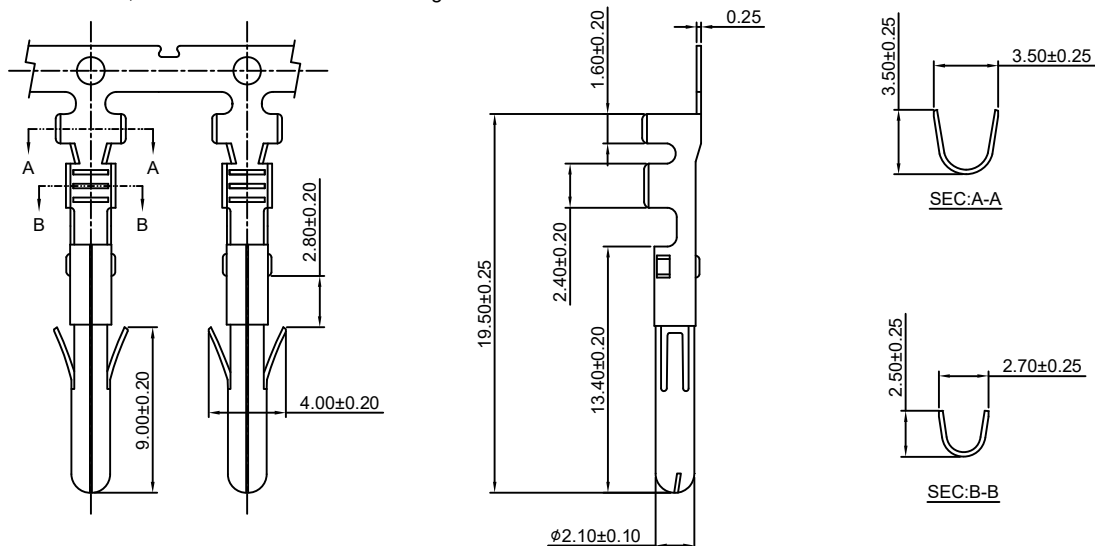
Optional Gold plating available but MOQ requested

### HDGC5083M-T

5.08mm pitch Crimp Terminal

**Reference Informations:**

\*Used in HDGC5083HM-XP, HDGC7110HM-2P series Housing



Ordering information & Specifications:

Unit:mm

| Part NO.     | Wire Range | Insulation O.D. | Material        | Finish           | Qty/reel  |
|--------------|------------|-----------------|-----------------|------------------|-----------|
| HDGC5083M-TB | AWG#18-#24 | 2.50mm(max)     | Brass           | Tin over Nickel  | 7,000 PCS |
| HDGC5083M-TP | AWG#18-#24 | 2.50mm(max)     | Phosphor Bronze | Tin over Nickel  | 7,000 PCS |
| HDGC5083M-GB | AWG#18-#24 | 2.50mm(max)     | Brass           | Gold over Nickel | 7,000 PCS |
| HDGC5083M-GP | AWG#18-#24 | 2.50mm(max)     | Phosphor Bronze | Gold over Nickel | 7,000 PCS |

Optional Gold plating available but MOQ requested



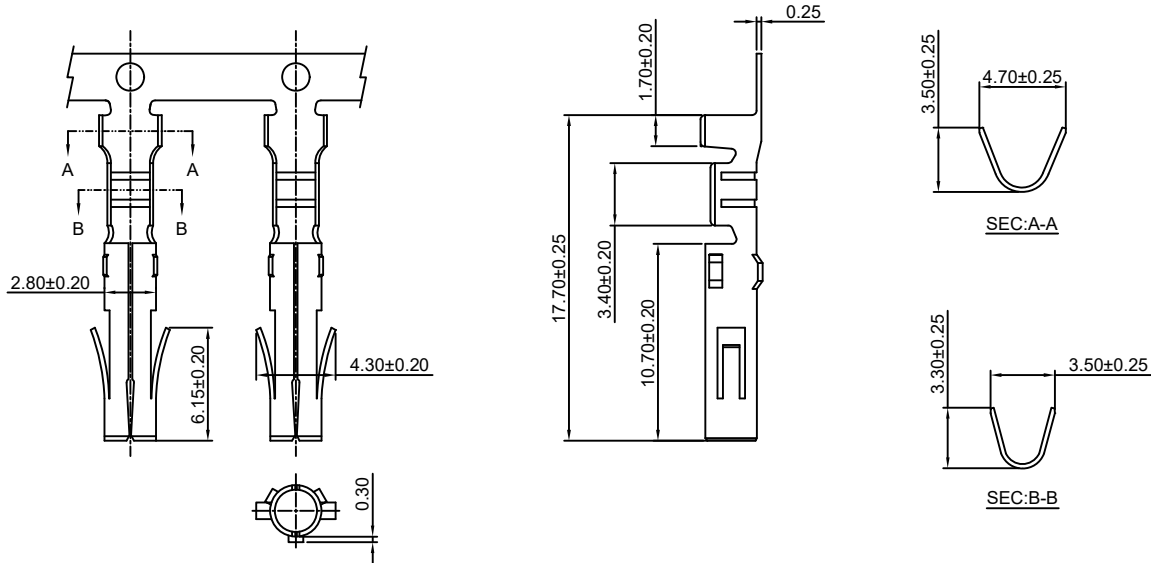
## HDGC5083 Series 5.08mm (.200") Pitch Wire to Board and Wire to Wire Connector

### HDGC5083F-T-H

5.08mm pitch Crimp Terminal

**Reference Informations:**

\*Used in HDGC5083HF-XP, HDGC7110HF-2P series Housing



Ordering information & Specifications:

Unit:mm

| Part NO.       | Wire Range | Insulation O.D. | Material        | Finish           | Qty/reel  |
|----------------|------------|-----------------|-----------------|------------------|-----------|
| HDGC5083F-TB-H | AWG#14-#20 | 3.30mm(max)     | Brass           | Tin over Nickel  | 6,000 PCS |
| HDGC5083F-TP-H | AWG#14-#20 | 3.30mm(max)     | Phosphor Bronze | Tin over Nickel  | 6,000 PCS |
| HDGC5083F-GB-H | AWG#14-#20 | 3.30mm(max)     | Brass           | Gold over Nickel | 6,000 PCS |
| HDGC5083F-GP-H | AWG#14-#20 | 3.30mm(max)     | Phosphor Bronze | Gold over Nickel | 6,000 PCS |

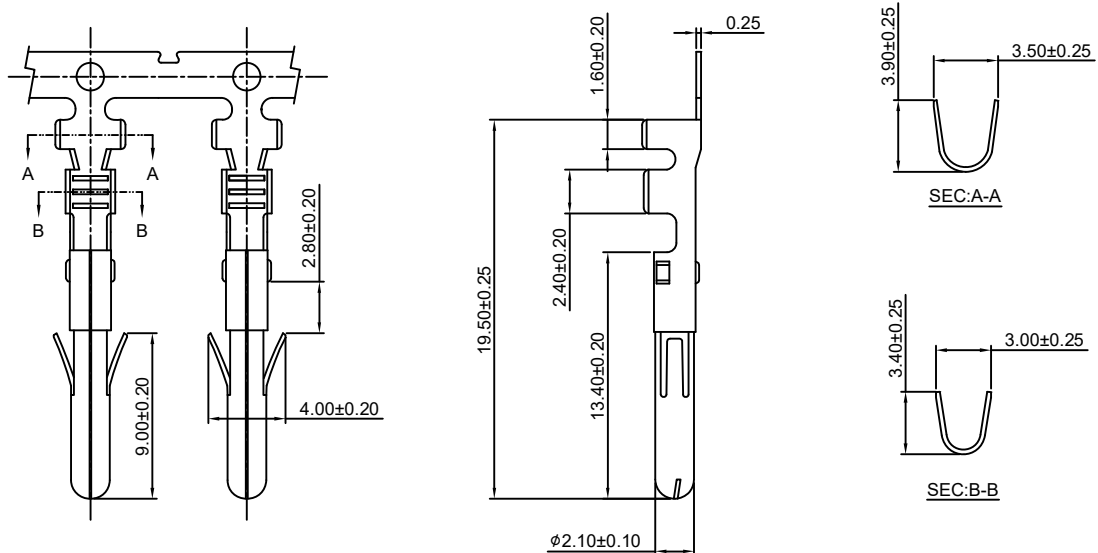
Optional Gold plating available but MOQ requested

### HDGC5083M-T-H

5.08mm pitch Crimp Terminal

**Reference Informations:**

\*Used in HDGC5083HM-XP, HDGC7110HM-2P series Housing



Ordering information & Specifications:

Unit:mm

| Part NO.       | Wire Range | Insulation O.D. | Material        | Finish           | Qty/reel  |
|----------------|------------|-----------------|-----------------|------------------|-----------|
| HDGC5083M-TB-H | AWG#14-#20 | 3.30mm(max)     | Brass           | Tin over Nickel  | 6,000 PCS |
| HDGC5083M-TP-H | AWG#14-#20 | 3.30mm(max)     | Phosphor Bronze | Tin over Nickel  | 6,000 PCS |
| HDGC5083M-GB-H | AWG#14-#20 | 3.30mm(max)     | Brass           | Gold over Nickel | 6,000 PCS |
| HDGC5083M-GP-H | AWG#14-#20 | 3.30mm(max)     | Phosphor Bronze | Gold over Nickel | 6,000 PCS |

Optional Gold plating available but MOQ requested



## HDGC5083 Series 5.08mm (.200") Pitch Wire to Board and Wire to Wire Connector

### HDGC5083HF-XP

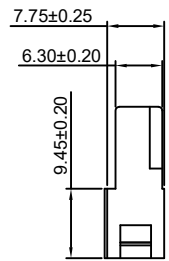
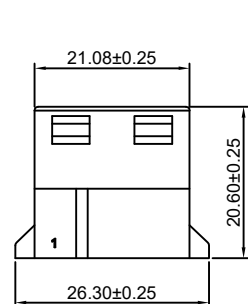
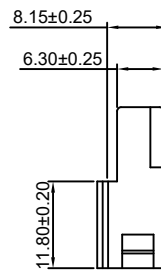
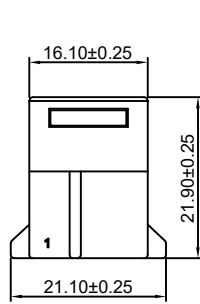
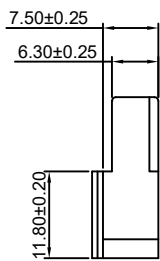
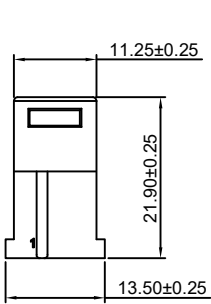
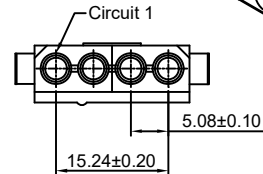
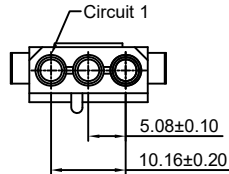
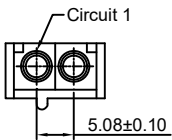
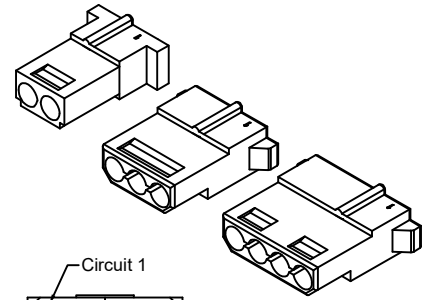
5.08mm pitch Housing

#### Reference Informations:

- \*Material:Nylon 66,UL94V-2
- \*Suitable HDGC5083F-T(-H) series Terminal
- \*Mates with HDGC5083HM-XP series Housing or HDGC5083WV-XP,WR-4P,WV-F,WR-F-4P, HDGC5083WV,WR-4P-R series Wafer
- \*Color:Natural

#### Ordering Information:

- HDGC5083HF-XP - \*\*\*  
1 2
- 1.Part No.  
2.Material:  
(blank):Nylon 66,UL94V-2  
V0:Nylon 66,UL94V-0  
GWT:Nylon 66,UL94V-0,GWT 750°C



HDGC5083HF-2P

HDGC5083HF-3P

HDGC5083HF-4P

### HDGC5083HM-XP

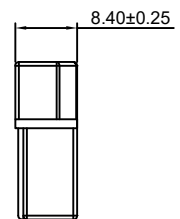
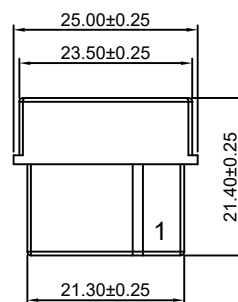
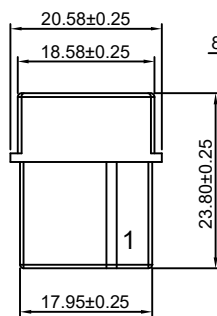
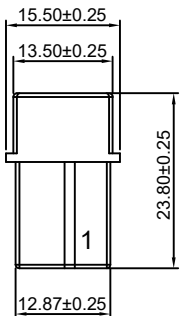
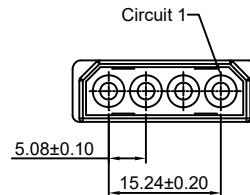
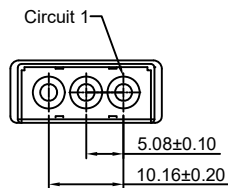
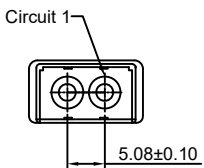
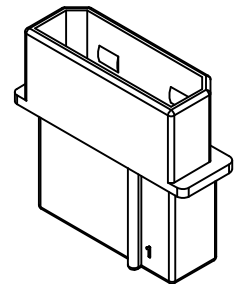
5.08mm pitch Housing

#### Reference Informations:

- \*Material:Nylon 66,UL94V-2
- \*Suitable HDGC5083M-T(-H) series Terminal
- \*Mates with HDGC5083HF-XP series Housing or HDGC5083HI-4P series I.D.C Connector or HDGC5083HFVW-XP series Wafer
- \*Color:Natural

#### Ordering Information:

- HDGC5083HM-XP - \*\*\*  
1 2
- 1.Part No.  
2.Material:  
(blank):Nylon 66,UL94V-2  
V0:Nylon 66,UL94V-0  
GWT:Nylon 66,UL94V-0,GWT 750°C



HDGC5083HM-2P

HDGC5083HM-3P

HDGC5083HM-4P



## HDGC5083 Series 5.08mm (.200") Pitch Wire to Board and Wire to Wire Connector

### HDGC5083HFWV-XP

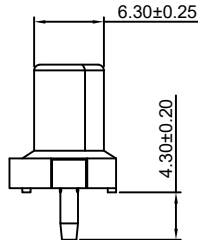
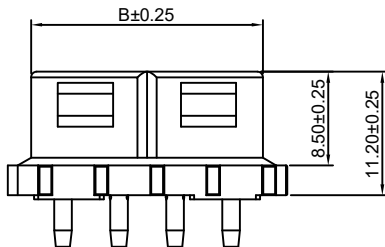
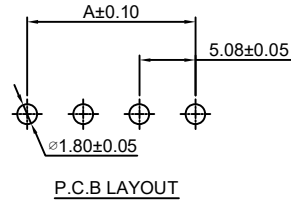
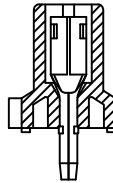
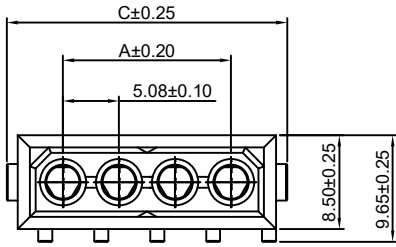
5.08mm pitch 180° Wafer

**Reference Informations:**

- \*Material:Pin:Phosphor Bronze/Tin over Nickel  
Insulator:Nylon 66,UL94V-2
- \*Mates with HDGC5083HM-XP series Housing or HDGC5083WV-XP, HDGC5083WR-4P,HDGC5083WV-F,WR-F-4P series Wafer
- \*Color:Natural

Ordering Information:  
 $\frac{\text{HDGC5083HFWV-XP} - \text{***} - \text{**}}{1 \quad 2 \quad 3}$

- 1.Part No.
- 2.Material:  
(blank):Nylon 66,UL94V-2  
V0:Nylon 66,UL94V-0  
GWT:Nylon 66,UL94V-0,GWT 750°C
- 3.Finish:  
(blank):Tin over Nickel  
G:Gold over Nickel



Ordering Information & Dimensions:

| PART NO. | Dimensions |       |       |
|----------|------------|-------|-------|
|          | A          | B     | C     |
| 2P       | 5.08       | 10.84 | 15.24 |
| 3P       | 10.16      | 15.92 | 20.30 |
| 4P       | 15.24      | 21.00 | 25.40 |

Unit: mm

### HDGC5083HI-4P

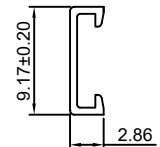
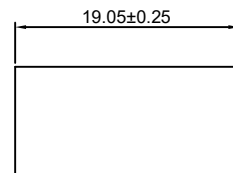
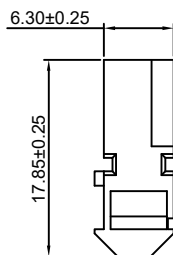
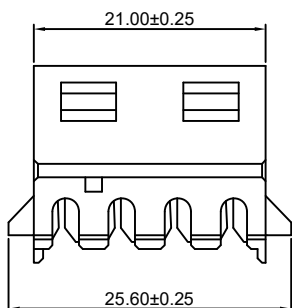
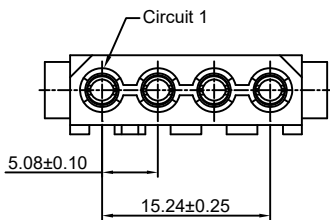
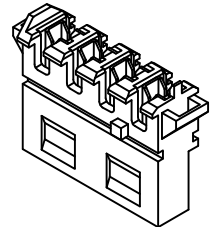
5.08mm pitch Insulation Displacement Connector

**Reference Informations:**

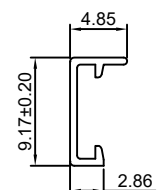
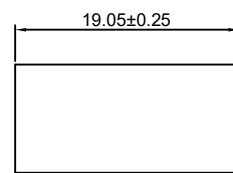
- \*Material:Terminal:Phosphor Bronze/Tin over Nickel  
Housing:Nylon 66,UL94V-2  
Cap:Nylon 66,UL94V-2
- \*Mates with HDGC5083HM-XP series Housing or HDGC5083WV-XP,WR-4P,HDGC5083WV-F,WR-F-4P, HDGC5083WV,WR-4P-R series Wafer
- \*Color:Natural

Ordering Information:  
 $\frac{\text{HDGC5083HI-4P} - \text{***} - \text{**} - \text{**}}{1 \quad 2 \quad 3 \quad 4}$

- 1.Part No.
- 2.Material:  
(blank):Nylon 66,UL94V-2  
V0:Nylon 66,UL94V-0  
GWT:Nylon 66,UL94V-0,GWT 750°C
- 3.AWG of Wire:  
(blank):-AWG#16  
18:-AWG#18  
20:-AWG#20  
22:-AWG#22
- 4.Finish:  
(blank):Tin over Nickel  
G:Gold over Nickel



HDGC5083HI-C(Through type)



HDGC5083HI-CA(End type)



## HDGC5083 Series 5.08mm (.200") Pitch Wire to Board and Wire to Wire Connector

### HDGC5083WV-XP

5.08mm pitch 180° Wafer

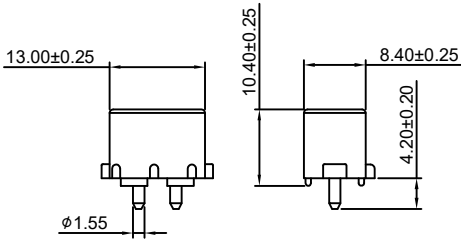
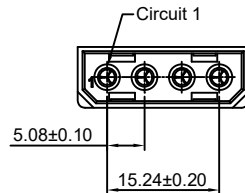
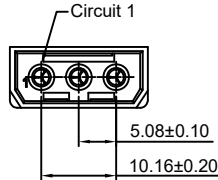
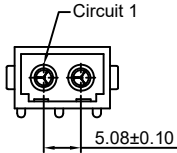
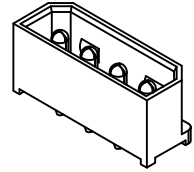
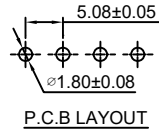
**Reference Informations:**

- \*Material: Pin: Brass/Tin over Nickel  
Insulator: Nylon 66, UL94V-2
- \*Mates with HDGC5083HF-XP series Housing or HDGC5083HI-4P series I.D.C Connector
- \*Color: Natural

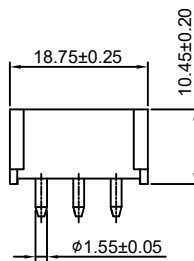
**Ordering Information:**

HDGC5083WV-XP - \*\*\* - \*\*  
1 2 3

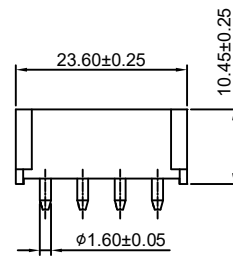
1. Part No.
2. Material:  
(blank): Nylon 66, UL94V-2  
V0: Nylon 66, UL94V-0  
GWT: Nylon 66, UL94V-0, GWT 750°C
3. Finish:  
(blank): Tin over Nickel  
G: Gold over Nickel



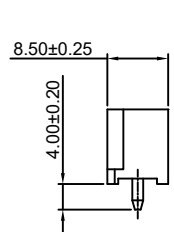
2P



3P



4P



### HDGC5083WV-F-4P

5.08mm pitch 180° Wafer

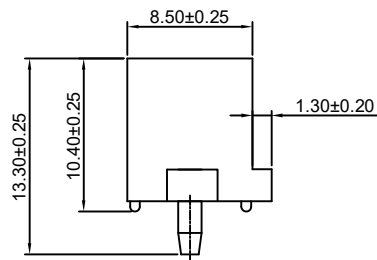
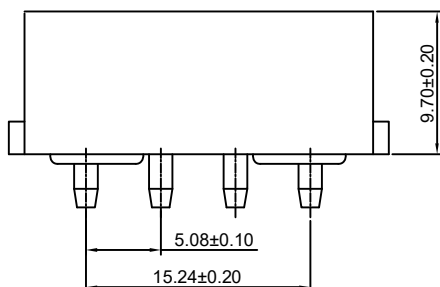
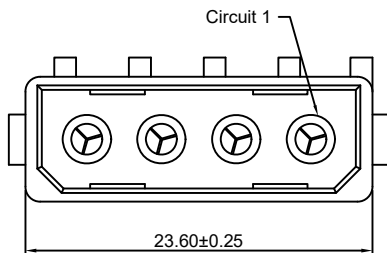
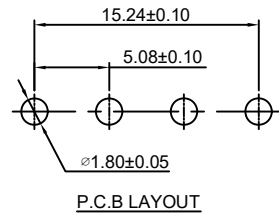
**Reference Informations:**

- \*Material: Pin: Brass/Tin over Nickel  
Insulator: Nylon 66, UL94V-2
- \*Mates with HDGC5083HF-XP series Housing or HDGC5083HI-4P series I.D.C Connector
- \*Color: Natural

**Ordering Information:**

HDGC5083WV-F-4P - \*\*\* - \*\* - \*  
1 2 3 4

1. Part No.
2. Material:  
(blank): Nylon 66, UL94V-2  
V0: Nylon 66, UL94V-0  
GWT: Nylon 66, UL94V-0, GWT 750°C
3. Color:  
(blank): Natural  
BK: Black  
RD: Red
4. Finish:  
(blank): Tin over Nickel  
G: Gold over Nickel





## HDGC5083 Series 5.08mm (.200") Pitch Wire to Board and Wire to Wire Connector

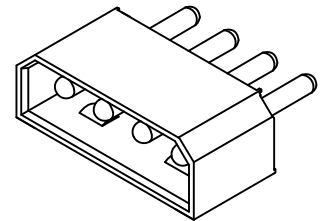
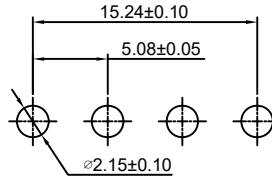
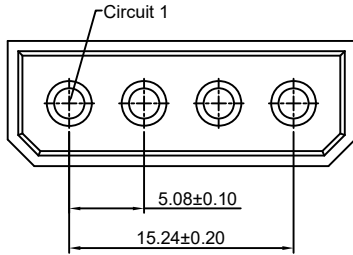
### HDGC5083WV-4P-R

5.08mm pitch 180° Wafer-Reverse Type

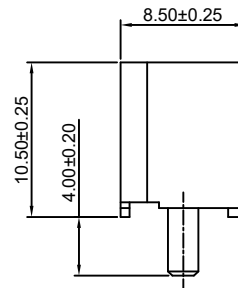
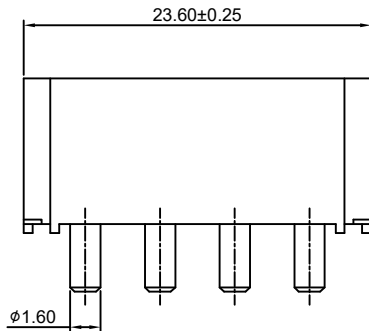
**Reference Informations:**

- \*Material: Pin: Brass/Tin over Nickel  
Metal Band: Brass/Tin over Nickel  
Insulator: Nylon 66, UL94V-2
- \*Mates with HDGC5083HF-XP series Housing  
or HDGC5083HI-4P series I.D.C Connector
- \*Color: Black

- Ordering Information:  
HDGC5083WV-4P-R -  $\frac{***}{1}$  -  $\frac{-}{2}$  -  $\frac{*}{3}$
1. Part No.
  2. Material:  
 (blank): Nylon 66, UL94V-2  
 V0: Nylon 66, UL94V-0  
 GWT: Nylon 66, UL94V-0, GWT 750°C
  3. Finish  
 (blank): Tin over Nickel  
 G: Gold over Nickel



P.C.B LAYOUT



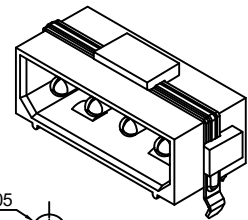
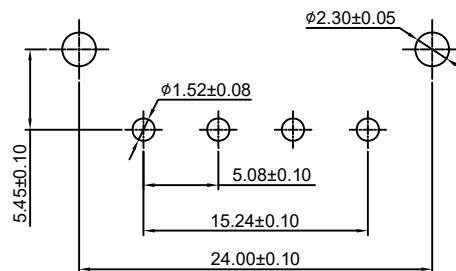
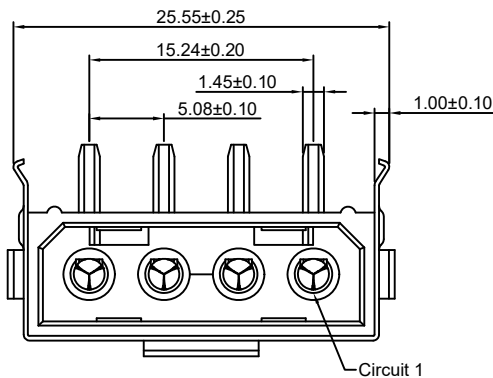
### HDGC5083WR-4P

5.08mm pitch 90° Wafer

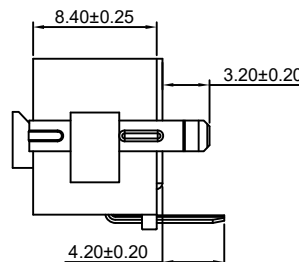
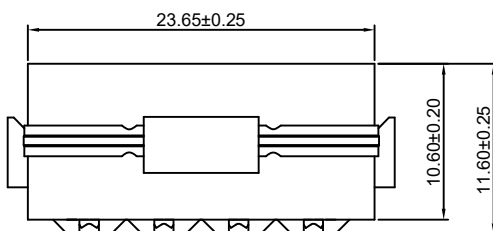
**Reference Informations:**

- \*Material: Pin: Brass/Tin over Nickel  
Metal Band: Brass/Tin over Nickel  
Insulator: Nylon 66, UL94V-0
- \*Mates with HDGC5083HF-XP series Housing  
or HDGC5083HI-4P series I.D.C Connector
- \*Color: Black

- Ordering Information:  
HDGC5083WR-4P -  $\frac{***}{1}$  -  $\frac{-}{2}$  -  $\frac{*}{3}$
1. Part No.
  2. Material:  
 (blank): Nylon 66, UL94V-0  
 GWT: Nylon 66, UL94V-0, GWT 750°C
  3. Finish  
 (blank): Tin over Nickel  
 G: Gold over Nickel



P.C.B. LAYOUT





## HDGC5083 Series 5.08mm (.200") Pitch Wire to Board and Wire to Wire Connector

### HDGC5083WR-F-4P

5.08mm pitch 90° Wafer

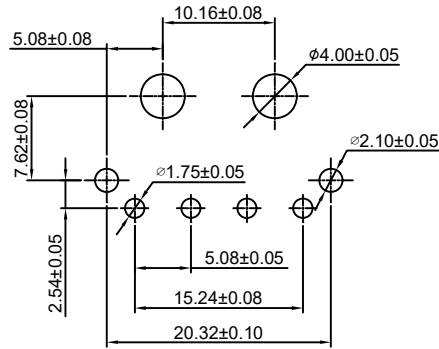
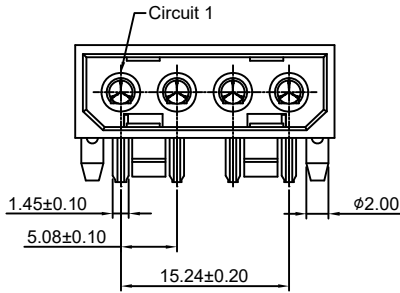
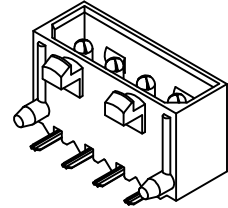
**Reference Informations:**

- \*Material: Pin: Brass/Tin over Nickel  
Insulator: Nylon 66, UL94V-2
- \*Mates with HDGC5083HF-XP series Housing or HDGC5083HI-4P series I.D.C Connector
- \*Color: Natural

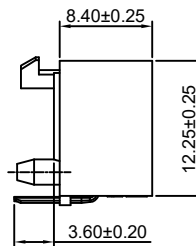
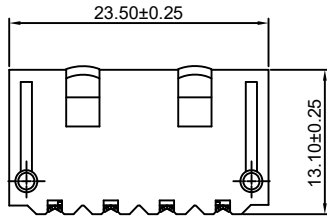
**Ordering Information:**

HDGC5083WR-F-4P - \*\*\* - \*  
1 2 3

1. Part No.
2. Material:  
(blank): Nylon 66, UL94V-2  
V0: Nylon 66, UL94V-0  
GWT: Nylon 66, UL94V-0, GWT 750°C
3. Finish  
(blank): Tin over Nickel  
G: Gold over Nickel



P.C.B. LAYOUT



### HDGC5083WR-4P-R

5.08mm pitch 90° Wafer-Reverse Type

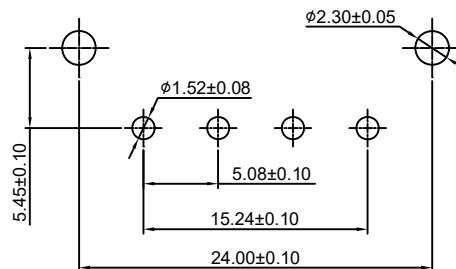
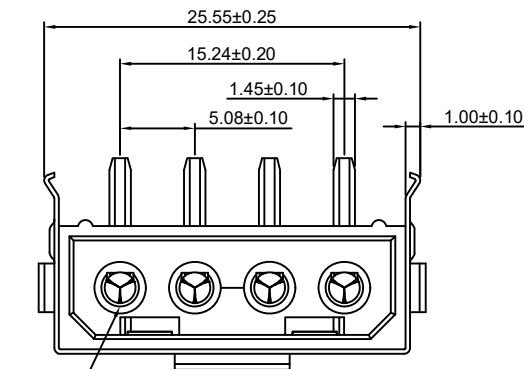
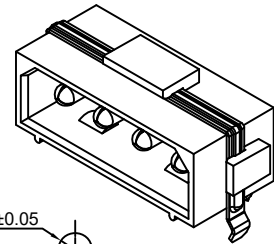
**Reference Informations:**

- \*Material: Pin: Brass/Tin over Nickel  
Metal Band: Brass/Tin over Nickel  
Insulator: Nylon 66, UL94V-0
- \*Mates with HDGC5083HF-XP series Housing or HDGC5083HI-4P series I.D.C Connector
- \*Color: Black

**Ordering Information:**

HDGC5083WR-4P-R - \*\*\* - \*  
1 2 3

1. Part No.
2. Material:  
(blank): Nylon 66, UL94V-0  
GWT: Nylon 66, UL94V-0, GWT 750°C
3. Finish  
(blank): Tin over Nickel  
G: Gold over Nickel



P.C.B. LAYOUT

