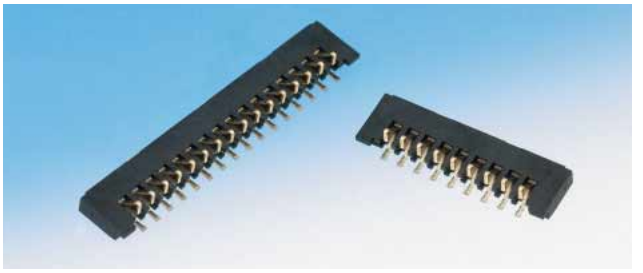
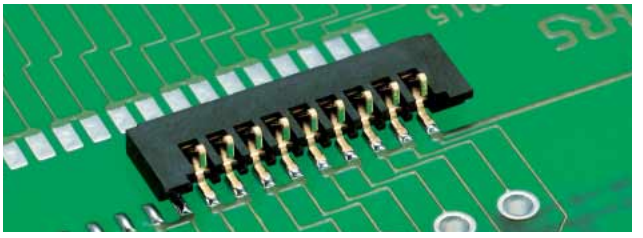
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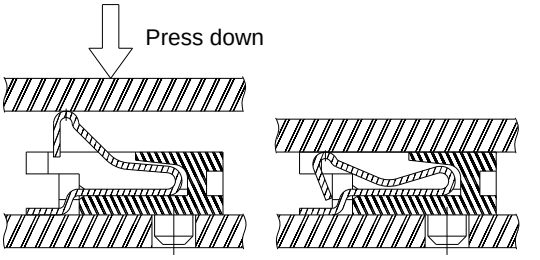
# 1.1mm Pitch Low Profile Compression Connectors

## DF26 Series





Compression Connectors
-Mating height: 1.2mm and 1.7mm




[Scheduled to be discontinued]

## ■Features

### 1. Low Profile

Connectors are available in heights : 1.2mm and 1.7mm.

### 2. Miniature, Space-Saving Design

The space-saving design of these connectors permits increase in the mounting density as compared to equivalent products.

### 3. One-Piece Connector

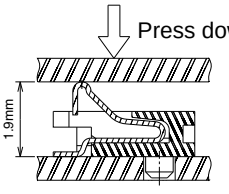
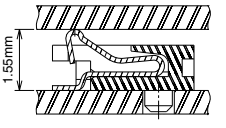
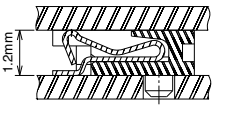
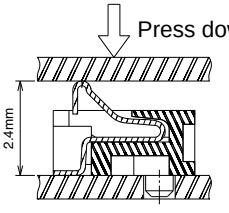
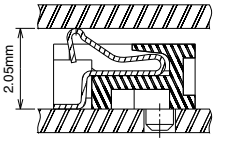
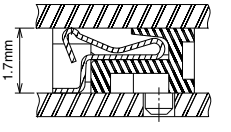
These connectors support cost reduction requirement since there is no need for a mating half connector.
This design also permits a reduction in the number of assembly steps.

### 4. Variations

| Number of Contacts / Mating Height | 9 Contacts | 16 Contacts | 18 Contacts |
|---|---|---|---|
| 1.2mm | ✔ | ✔ | Under development |
| 1.7mm | ✔ | | |

## ■Applications

LCD, cellular phones, notebook computers, miniature office automation equipment, and miniature consumer products.

| Item / Product | Before Contact | Contacting (Effective Mating Height) | |
|---|---|---|---|
| | | 1.55mm | 1.2mm |
| 1.2mm |   |   |   |
| | | 2.05mm | 1.7mm |
| 1.7mm |   |   |   |

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## ■Product Specifications

| | | | | | | |
|---|---|---|---|---|---|---|
| Rating | Current rating<br>Voltage rating | 0.5 A<br>50 V AC | Operation Temperature<br>Operation Humidity | -35℃ to 85℃ (Note 1)<br>20% to 80% | Storage Temperature<br>Storage Humidity | -10℃ to 60℃ (Note 2)<br>40% to 70% (Note 2) |

| Item | Specification | Conditions |
|---|---|---|
| 1. Insulation resistance | 500 M ohms min. | 100 V DC |
| 2. Withstanding voltage | No flashover or insulation breakdown | 150 V AC / one minute |
| 3. Contact resistance | 50 m ohms max. | 100 mA |
| 4. Vibration | No electrical discontinuity of 1μs or more | Frequency: 10 to 55 Hz, single amplitude of 0.75 mm,<br>2 hours in each of the 3 directions |
| 5. Humidity | Below the contact resistance standard value.<br>Insulation resistance: 500 M min. | 96 hours at temperature of 40 ±2℃ and humidity of 90% to 95% |
| 6. Temperature cycle | Below the contact resistance standard value.<br>Insulation resistance: 500 M ohms min. | Temperature: -55℃ → +5℃ to +35℃ → +85℃ → +5℃ to +35℃<br>Time sequence: 30 → 10 → 30 → 10 (Minutes)<br>5 cycles |
| 7. Stroke life | Below contact resistance standard value | 50 stroke cycles |
| 8. Resistance to soldering heat | No deformation of the insulator parts affecting performance. | Reflow soldering: At recommended temperature profile<br>Manual soldering: Soldering iron temperature 300℃, 3 seconds |

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to connectors stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non- conducting condition of installed connectors in storage, shipment or during transportation.

[Scheduled to be discontinued]

## ■Materials

| Item | Part | Material | Finish | Remarks |
|---|---|---|---|---|
| Compression | Insulator | LCP | Color: Black | UL94V-0 |
| | Contacts | Phosphor bronze | Gold plating | —— |

## ■Ordering Information

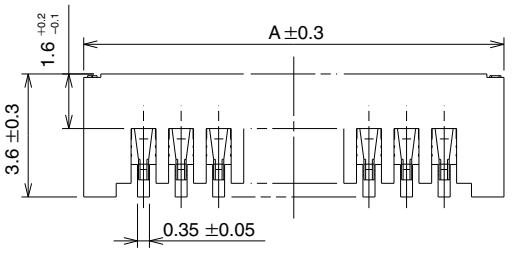
**DF26 # 1.2 - ＊ CP - 1.1 V ( ＊ ＊ )**

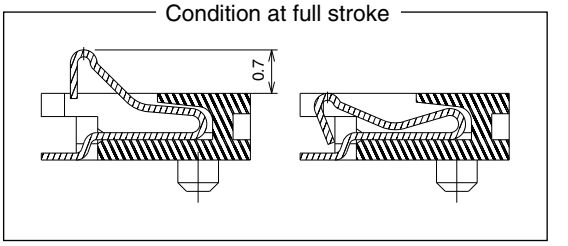
❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

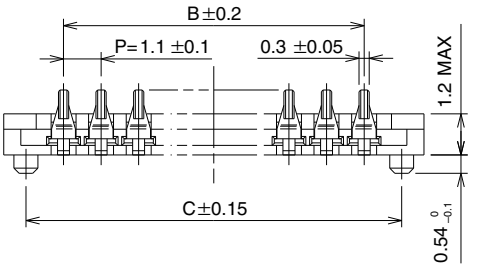
| | | |
|---|---|---|
| ❶ Series name: DF26 | ❹ Number of contacts: 9, 16 | ❽ Packaging<br>(51): Embossed tape packaging<br>(2,000 pieces per reel)<br>0.1 micron gold plated<br>(66): Embossed tape packaging<br>(2,000 pieces per reel)<br>0.5 micron gold plated |
| ❷ Boss type<br>A: With boss | ❺ Connector type<br>CP: Single row compression | |
| ❸ Mating height<br>1.2: 1.2mm<br>1.7: 1.7mm | ❻ Contact pitch: 1.1mm | |
| | ❼ Contact type<br>V: Straight SMT | |

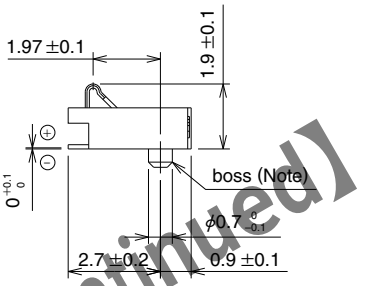
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## ■Compression Connectors (Straight SMT) for 1.2mm Mating



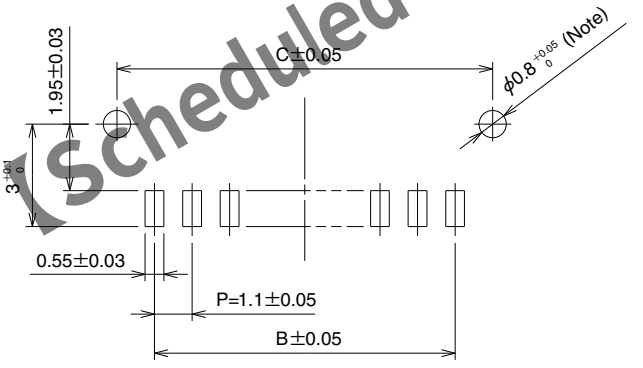



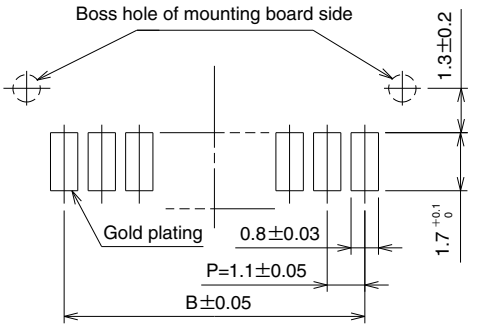

(Scheduled to be discontinued)

## ◆PCB Mounting Pattern

Connector Mounting Surface Side




Connector Contact Side




[Specification number] — ＊＊, (＊＊)
(51): Gold plating, embossed tape packaging (2,000 pieces per reel)

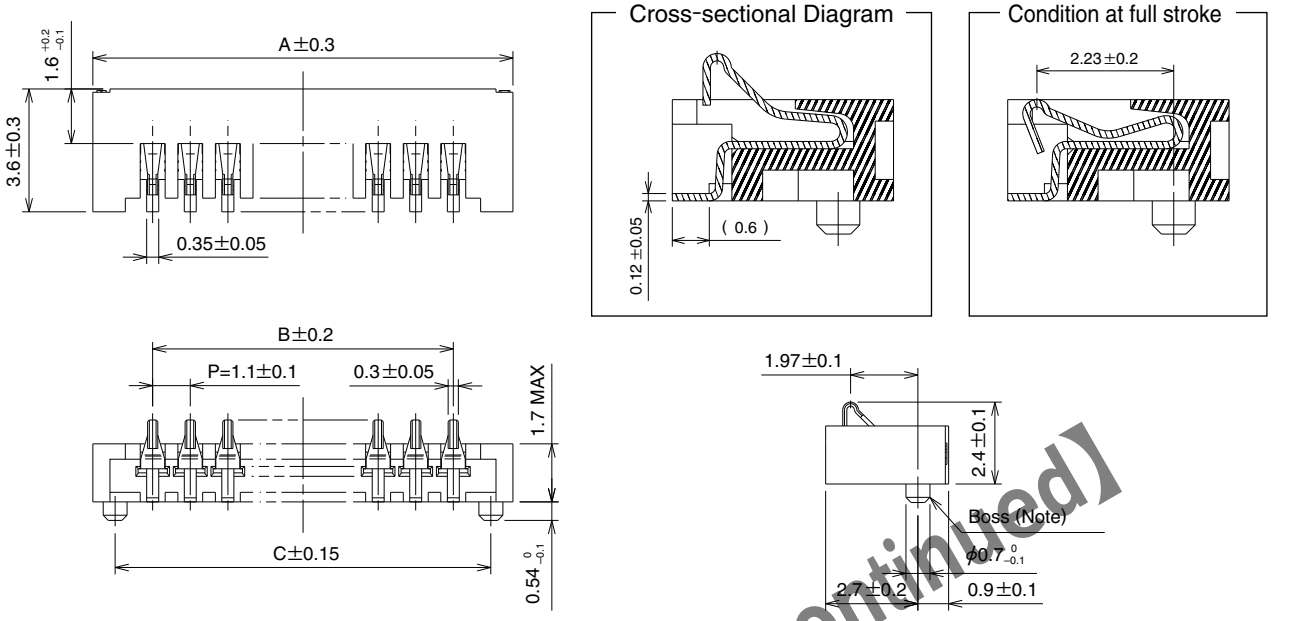
Unit: mm

| Product No. | HRS No. | Number of Contacts. | A | B | C | Embossed width | Notes |
|---|---|---|---|---|---|---|---|
| DF26A1.2- 9CP-1.1V(＊＊) | CL661-0002-5-＊＊ | 9 | 12.3 | 8.8 | 11.0 | 24 | With boss |

Note: Order by number of reels.

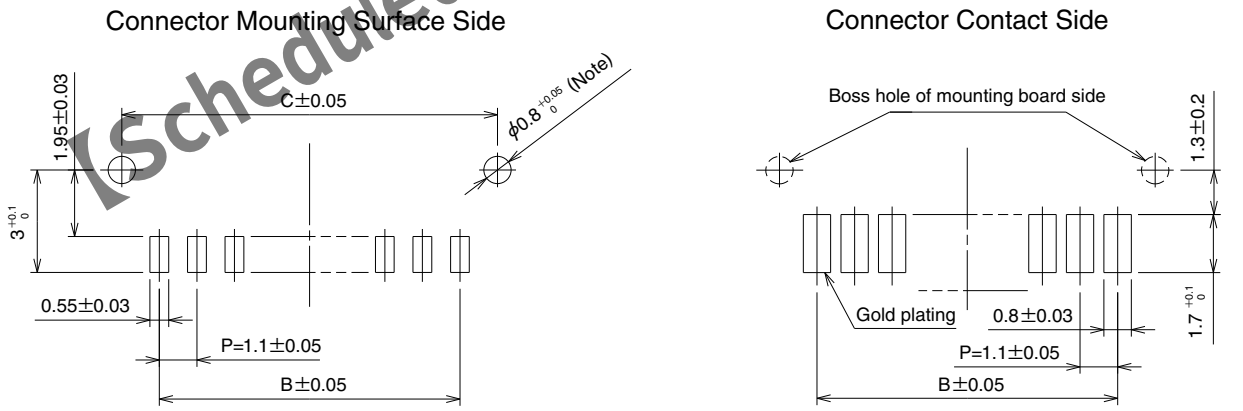
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## ■Compression Connectors (Straight SMT) for 1.7mm Mating




[Scheduled to be discontinued]

## ◆PCB Mounting Pattern




[Specification number] — ＊＊, (＊＊)
(66): Gold plating, embossed tape packaging (2,000 pieces per reel)

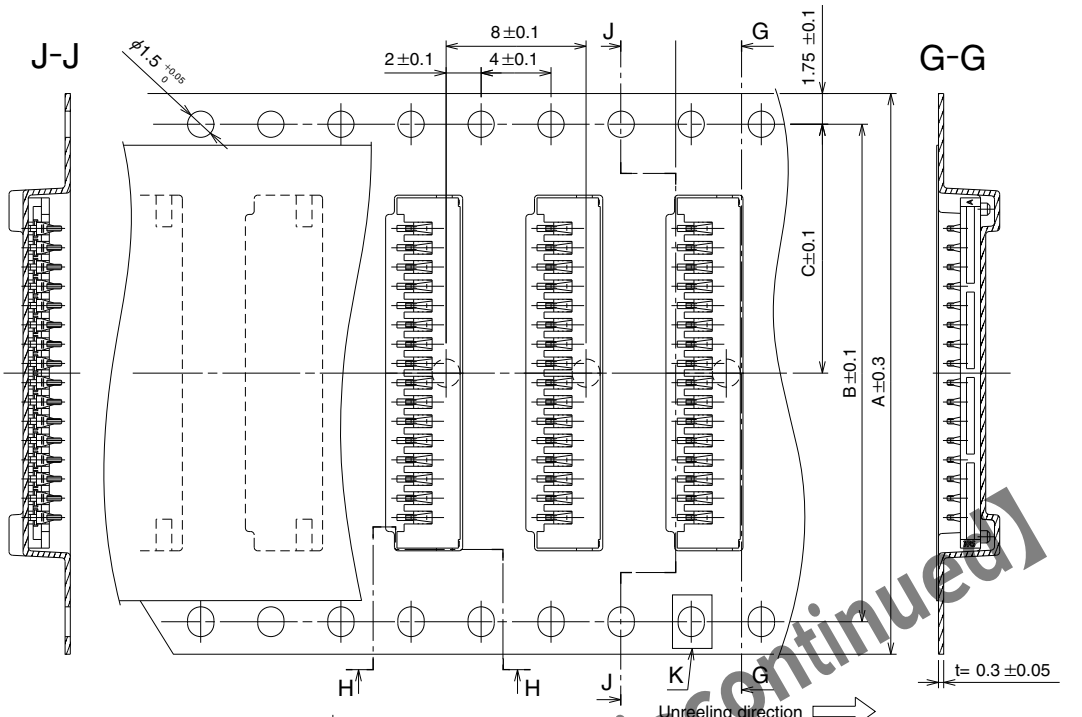
Unit: mm

| Product No. | HRS No. | Number of Contacts | A | B | C | Embossed width | Notes |
|---|---|---|---|---|---|---|---|
| DF26A1.7- 9CP-1.1V(＊＊) | CL661-0008-1-＊＊ | 9 | 12.3 | 8.8 | 11.0 | 24 | With boss |

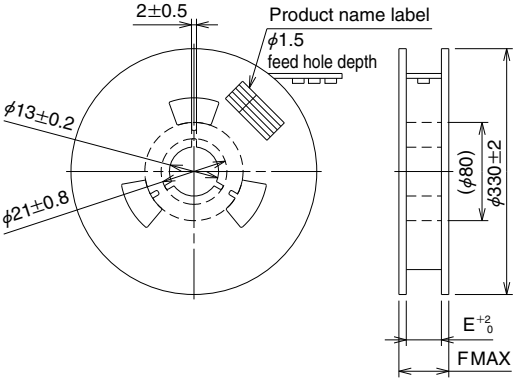
Note: Order by number of reels.

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## Embossed Carrier Tape Dimensions




Reel Dimension



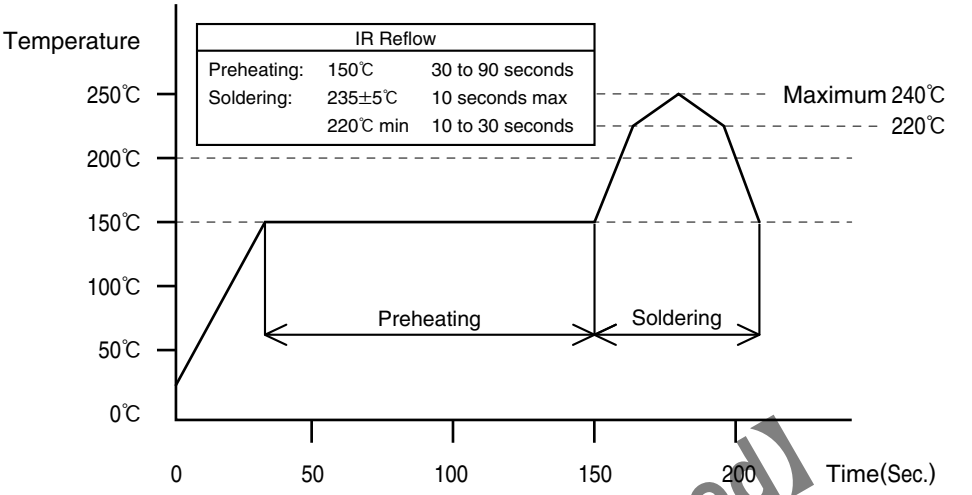

Unit: mm

| Product No. | Number of Contacts | A | B | C | D | E | F | Notes |
|---|---|---|---|---|---|---|---|---|
| DF26A1.2- 9CP-1.1V | 9 | 24 | —— | 11.5 | 2.4 | 24.4 | 30.4 | With boss |
| DF26A1.7- 9CP-1.1V | 9 | 24 | —— | 11.5 | 2.9 | 24.4 | 30.4 | |

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## Precautions for Use

| | |
|---|---|
| 1. Recommended Temperature Profile | <br>Note1: Up to 2 cycles of reflow soldering are possible under the same conditions, provided that there is a return to normal temperature between the first and second cycle.<br>Note2: The temperature profile indicates the board surface temperature at the point of contacts with the connector terminals (for surface mounted receptacle). |
| 2.Recommended manual soldering | Manual soldering: 290±10℃ for 3 seconds |
| 3.Recommended screen thickness | 0.15mm |
| 4.Board warpage | Maximum of 0.03mm at the connector center, with both ends of the connector as reference points. |
| 5.Cleaning conditions | Refer to “Nylon connector Use Handbook”. |
| 6.Precautions | ■Excessive twisting when mating/un-mating may cause damage to the connector.<br>■The contacts are of an exposed design and touching them with bare hands may cause breakdown of the elements due to contact faults or static electricity. |

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## NOTES :

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