Floating Connector with 0.5mm Pitch
±0.5mm Displacement in XY Direction

DY SERIES
FEATURES

- 0.5mm pitch floating connector
- Location error offsets ±0.5mm in the XY direction
- High reliable design with effective contact displacement of 1.25mm
- Suction area for automated mounting provided
- Positioning posts are optional for manual mounting
- Nine size: 30, 40, 50, 60, 80, 90, 100, 120 and 140 pins
  *Available pin count varies with the product type.
- Plug connector variations: Straight and Right angle
- 2 mating variations (stacked and vertical)
- Ten mating height: 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14mm
  *Available mating height varies with the product type.
- Shape of retention clip forming the large fillet
- RoHS compliance

SPECIFICATIONS

- Insulator material: Glass-filled LCP (UL94V-0), Black
- Contact material: Copper alloy
- Contact plating: Gold over Nickel
- Retention clip material: Copper alloy
- Retention clip plating: Gold over Nickel
- Current rating: 0.4A per contact
- 0.3A per contact (DY1/L50542/L50542/L50542/L)
- Contact resistance: 80mΩ max.
- 100mΩ max. (DY1/L50542/L50542/L50542/L)
- Dielectric withstanding voltage: 200V AC for 1 minute
- Insulation resistance: 100MΩ min. at 250V DC
- Operating temperature: -40°C to +85°C

Floating Connector

Permissible mating tolerance in the pitch-direction ±0.5mm

- When the connector is mounted on the printed circuit board, a location error in the two directions of horizontal and vertical (XY direction) may occur at both connectors. In addition, if each printed circuit board is fixed to a case by screws after mating connectors, the connectors may have to compensate for the location error because a gap occurs during screwing to the printed circuit board. A connector having a tolerance to compensate for such an error or gap caused by vibration is called a floating connector. The DY series is a 0.5mm fine pitch connector with ±0.5mm floating mechanism and ensures sufficient compensation for location errors.

Mating Combination

Stacked Mated

Vertical Mated

Unit:mm (inch)
**DY SERIES**

**0.5mm PITCH FLOATING CONNECTOR**

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**ORDER CODE**

**DY 0 - S**

- Number of packaging
  - Omit: 1000pcs. per reel
  - A: 500pcs. per reel
- Contact tail style
  - S: Straight, SMT
- Number of contacts
  - 030: 30 pin
  - 040: 40 pin
  - 050: 50 pin
  - 060: 60 pin
  - 080: 80 pin
- Series name
  - DY: 0.5mm pitch floating connector

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**ORDER CODE**

**DY 1 - S**

- Number of packaging
  - Omit: 500pcs. per reel
  - Stacked height (2 to 10mm)
    - 1: 5mm
    - 2: 6mm
    - 3: 7mm
  - A: 500pcs. per reel
    - Stacked height (5mm)
- Contact tail style
  - S: Straight, SMT
- Number of contacts
  - 030: 30 pin
  - 040: 40 pin
  - 050: 50 pin
  - 060: 60 pin
  - 080: 80 pin
- Connector type
  - 10: Plug, Without positioning posts
  - 11: Plug, With positioning posts
- Series name
  - DY: 0.5mm pitch floating connector

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**ORDER CODE**

**DY 1 - FS**

- Stacked height
  - 1: 11mm
    - (60, 80, 120, 140 pin)
  - 2: 12mm
  - 3: 13mm
  - 4: 14mm
- Contact tail style
  - FS: Flexible stacking straight, SMT
- Connector type
  - 10: Plug, Without positioning posts
  - 11: Plug, With positioning posts
- Number of contacts
  - 060: 60 pin
  - 080: 80 pin
  - 100: 100 pin
- Series name
  - DY: 0.5mm pitch floating connector
**DY SERIES**

**0.5mm PITCH FLOATING CONNECTOR**

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**DY0 - Receptacle (Receptacle)**

**X-X’ Cross Section**

**Printed Circuit Board Layout**

(Component Side View)

**For 30, 40, 50 contacts**

**For 60, 80, 90, 100, 120, 140 contacts**

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**Product Table / Dimensions**

<table>
<thead>
<tr>
<th>No. of contacts</th>
<th>Part Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
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**Ref. 0.27**

**±0.008**

**±0.012**

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**Polarity identification**

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**Lot No.**

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**0.5(0.020) pitch**

**0.2(0.008) pitch**

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**Embossed tape**

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**Packaging**

- **1,000**
- **500**

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**shun@126.com**, **snm@3N**, **yconnecting@126.com**

**www.shuntu.net**
DY1 (Plug, For 5, 6 and 7mm stacked height)

Unit: mm (inch)

- Stack height

<table>
<thead>
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<th>Stack height</th>
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<th>H</th>
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- Product Table / Dimensions

<table>
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<tr>
<th>Part Number</th>
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<th>D</th>
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</table>

For 60, 80, 100, 120, 140 contacts

- Printed Circuit Board Layout (Component Side View)

For 30, 40, 50 contacts

- X-X' Cross Section

- Packaging style

Embossed tape

Tape

- Number of packaging: 1,000, 500, 500

Lot No.
DY1-□-□FS-□ (Plug, For 11, 12, 13 and 14mm flexible stacked height)

Plug (Straight : Flexible Stack Type)

X-X' Cross Section

Printed Circuit Board Layout (Component Side View)

Unit:mm(inch)

<table>
<thead>
<tr>
<th>Stack height</th>
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<tbody>
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<td>Part Number</td>
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<td>DY1-□-□FS-4</td>
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*Order accepted 500pcs. min. Please contact your local sales office for orders less than 500pcs.

*60, 80, 120, 140 pin only
### Product Table / Dimensions

<table>
<thead>
<tr>
<th>No. of contacts</th>
<th>Part Number</th>
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<th>B</th>
<th>C</th>
<th>D</th>
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*Specifications and dimensions are subject to change without notice.*

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**Unit:** mm (inch)