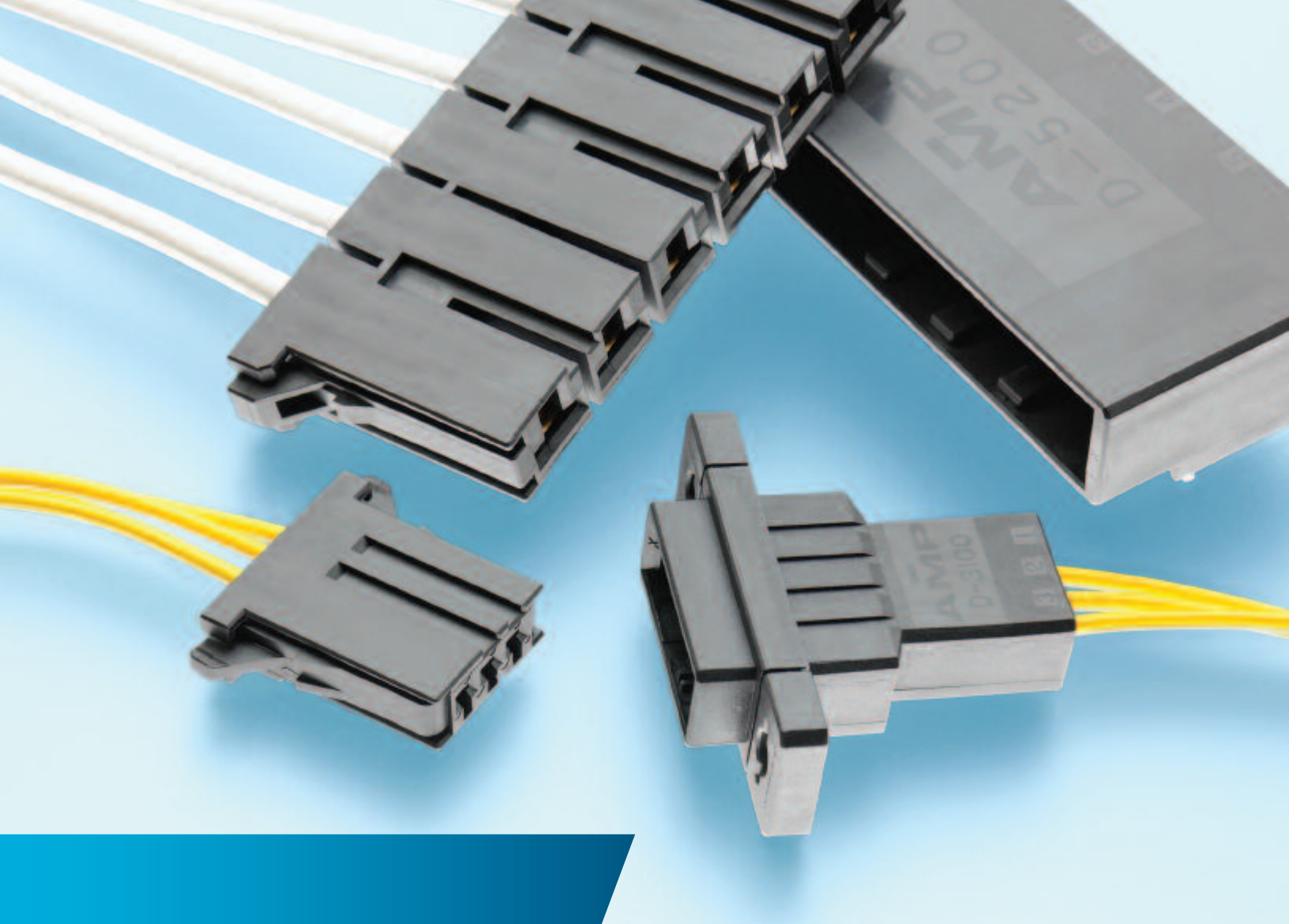




# AMP Dynamic Series Connectors



## Overview

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**See inside back cover for Global Contacts and phone numbers.**

**Note:** Connectors are not designed to mate and unmate on energized line.

### Product Facts

- **Connector system designed for exclusive use with I/O and power circuits in the power and control boards of heavy electric systems and FA equipment, process computers, FA computers, PCs, NCs, servodrivers, servomotors, inverters, switching power supplies, etc.**
- **Consists of wire-side connector and board-side connector**
- **Diverse housings are available to meet most specific applications**
- **With contacts standardized, the tool types used can be reduced**
- **Termination can be automated and field maintenance simplified**
- **As contacts can be crimped, connector quality is maintained**
- **Standardization of contacts leads to easier management of inventory**
- **To help prevent human errors in termination a common identification mark is on hand tools and contacts**
- **Housing color and design are coordinated**

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- Technical Support
- Catalogs
- Technical Documents
- Product Samples
- Tyco Electronics Authorized Distributor Locations

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- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above
- So whatever your questions when it comes to RoHS, we've got the answers at [www.tycoelectronics.com/leadfree](http://www.tycoelectronics.com/leadfree)

**RoHS  
Customer  
Support  
Center**

## Table of Contents

|                                                                                                                                             |        |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Product Facts .....                                                                                                                         | 2      |
| Table of Contents .....                                                                                                                     | 3-5    |
| <b>D-1000 Series</b>                                                                                                                        |        |
| Introduction and Product Facts .....                                                                                                        | 6      |
| D-1 Contacts (Strip and Loose Piece), Application Tooling,<br>Performance Characteristics and Technical Documents .....                     | 7      |
| <b>D-1100D — 2-Row Type</b>                                                                                                                 |        |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) .....               | 8, 9   |
| <b>D-1200S</b>                                                                                                                              |        |
| Dimensions (Mating and External), 2-Pos. Receptacle & Tab Housings and<br>Board-mounting Tab Header (Vertical) .....                        | 10, 11 |
| <b>D-1200D — 2-Row Type</b>                                                                                                                 |        |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) .....               | 12, 13 |
| <b>D-1500T</b>                                                                                                                              |        |
| Dimensions (Mating and External), 3-Pos. Receptacle Housing and<br>Board-mounting Tab Headers (Horizontal and Vertical) .....               | 14, 15 |
| <b>D-2000 Series</b>                                                                                                                        |        |
| List of Products by Application (D-2100S, D-2100D and D-2100M) .....                                                                        | 16     |
| Performance Specifications .....                                                                                                            | 17, 18 |
| D-2 Contacts (Strip and Loose Piece) and Application Tooling .....                                                                          | 19     |
| <b>D-2100S — 1-Row Type</b>                                                                                                                 |        |
| Typical Applications, Mating Combinations and 3-Pos. Housings & Headers .....                                                               | 20     |
| Keying .....                                                                                                                                | 21     |
| Dimensions (Mating and External), 3-Pos. Receptacle & Tab Housings and<br>3-Pos. Board-mounting Tab Headers (Vertical and Horizontal) ..... | 22, 23 |
| <b>D-2100D — 2-Row Type</b>                                                                                                                 |        |
| Typical Applications, Mating Combinations and Housings & Headers .....                                                                      | 24     |
| Keying .....                                                                                                                                | 25     |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Vertical and Horizontal) .....               | 26, 27 |
| <b>D-2100M</b>                                                                                                                              |        |
| <b>Drawer Type</b>                                                                                                                          |        |
| Typical Applications and 50-Pos. Receptacle & Tab Housings .....                                                                            | 28     |
| Dimensions (Mating and External), 50-Pos. Receptacle & Tab Housings .....                                                                   | 29     |
| 50-Pos. Board-mounting Tab Header (Horizontal) .....                                                                                        | 30     |
| Panel Mounting Screws (for 50-Pos. Receptacle & Tab Housings) .....                                                                         | 30     |
| <b>Screw Lock Type</b>                                                                                                                      |        |
| 50-Pos. Receptacle and Tab Assemblies (with Screws) .....                                                                                   | 31     |
| <b>D-2600 — Combination Power &amp; Signal</b>                                                                                              |        |
| Introduction, Performance Characteristics and Technical Documents .....                                                                     | 32     |
| Dimensions (Mating and External), 48-Pos. Receptacle Housing and<br>Board-mounting Tab Header (Vertical) .....                              | 33     |
| <b>D-3000 Series</b>                                                                                                                        |        |
| List of Products by Application                                                                                                             |        |
| D-3100S, D-3100M and D-3100D .....                                                                                                          | 34     |
| D-3200S, D-3200M and D-3200T; D-3400F and D-3500D .....                                                                                     | 35     |
| Performance Specifications .....                                                                                                            | 36, 37 |
| D-3 Contacts (Strip and Loose Piece) .....                                                                                                  | 38     |
| Application Tooling (Hand Tools and Machines) .....                                                                                         | 38-41  |
| Keying Plug .....                                                                                                                           | 41     |
| Connector Panel-Mounting Hardware (L Fittings and Push Rivets) .....                                                                        | 42     |

## Table of Contents (Continued)

### D-3100S

#### Standard 1-Row Type

|                                                                                                                                   |        |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations and Ordering Information . . . . .                                                      | 43     |
| Keying and Typical Applications (Elevators) . . . . .                                                                             | 44     |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 45, 46 |

#### Standard SMT Type

|                                                                                                                             |        |
|-----------------------------------------------------------------------------------------------------------------------------|--------|
| Mating Combinations and Ordering Information . . . . .                                                                      | 47     |
| Dimensions (Mating and External), Receptacle Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 47, 48 |

### D-3100D — Standard 2-Row Type

|                                                                                                                                   |        |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations and Ordering Information . . . . .                                                      | 49     |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 50, 51 |

### D-3100M — Modular Type

|                                                                                                                                          |        |
|------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications and 6-Pos. Receptacle Housings & Tab Headers . . . . .                                                              | 52     |
| Keying and Mating Combinations . . . . .                                                                                                 | 53     |
| Dimensions (Mating and External), 6-Pos. Receptacle Housing and<br>6-Pos. Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 54, 55 |

### D-3200S

#### High Voltage Version of Standard D-3100S

|                                                                                                                                   |        |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations and Ordering Information . . . . .                                                      | 56     |
| Keying and Typical Application (Switching Regulator) . . . . .                                                                    | 57     |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 58, 59 |

#### SMT Type

|                                                                              |    |
|------------------------------------------------------------------------------|----|
| Typical Applications and Receptacle Housings & 3-Pos. Tab Header . . . . .   | 60 |
| Dimensions (Mating and External), 3-Pos. Board-mounting Tab Header . . . . . | 61 |

### D-3200M

#### Modular Type

|                                                                                                                                   |        |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications and Ordering Information . . . . .                                                                           | 62     |
| Keying and Mating Combinations . . . . .                                                                                          | 63     |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 64, 65 |

#### Drawer Type

|                                                                                                                                                 |        |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations and Ordering Information . . . . .                                                                    | 66     |
| Dimensions (Mating and External), 6-Pos. Receptacle & Tab Housings and<br>6-Pos. Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 67, 68 |

### D-3200T — 3-Row Type

|                                                                                                                     |    |
|---------------------------------------------------------------------------------------------------------------------|----|
| Typical Application and 9-Pos. Board-mounting Tab Headers,<br>Dimensions (Mating and External) and Keying . . . . . | 69 |
|---------------------------------------------------------------------------------------------------------------------|----|

### D-3400F — Skyscraper Connectors

|                                                                                                                |        |
|----------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations and Ordering Information . . . . .                                   | 70     |
| Dimensions (Mating and External), Receptacle Housings and<br>Board-mounting Tab Headers (Horizontal) . . . . . | 71, 72 |

### D-3500D — Sensor Connectors

|                                                                                                                                   |        |
|-----------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations and Ordering Information . . . . .                                                      | 73     |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal and Vertical) . . . . . | 74, 75 |

### D-3700 — Connectors for Exclusive Use with Servomotors

|                                                                               |    |
|-------------------------------------------------------------------------------|----|
| Typical Applications, 6-Pos. Receptacle Connector Kits . . . . .              | 76 |
| Dimensions (Mating and External) and Optional Motor-side Tab Header . . . . . | 77 |

## Table of Contents (Continued)

### D-4000 Series

|                                                                                                                                        |    |
|----------------------------------------------------------------------------------------------------------------------------------------|----|
| Introduction, Product Facts, Performance Characteristics and<br>D-4 Contacts (Strip and Loose Piece) and Application Tooling . . . . . | 78 |
|----------------------------------------------------------------------------------------------------------------------------------------|----|

### D-4200

|                                                                                                                    |        |
|--------------------------------------------------------------------------------------------------------------------|--------|
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Vertical) . . . . . | 79, 80 |
|--------------------------------------------------------------------------------------------------------------------|--------|

### D-5200 Series

|                                                                                 |        |
|---------------------------------------------------------------------------------|--------|
| List of Products by Application (D-5200S and D-5200M) . . . . .                 | 81     |
| Performance Data and Specifications . . . . .                                   | 82, 83 |
| D-5 Contacts (Strip and Loose Piece) and Sequential Clip . . . . .              | 84     |
| Application Tooling (Extraction Tool, Hand Crimping Tool and Machine) . . . . . | 84, 85 |

#### D-5200S — Standard 1-Row Type

|                                                                                                                                               |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations and Ordering Information . . . . .                                                                  | 86     |
| Keying and Servomotor/Servodriver Application . . . . .                                                                                       | 87     |
| Dimensions (Mating and External), Receptacle & Tab Housings and<br>Board-mounting Tab Headers (Horizontal, Vertical and Sequential) . . . . . | 88, 89 |

#### D-5200M — Modular Type

|                                                                                                                                               |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications and Ordering Information . . . . .                                                                                       | 90     |
| Keying and Mating Combinations . . . . .                                                                                                      | 91     |
| Dimensions (Mating and External), 4- and 6-Pos. Receptacle & Tab Housings and<br>4- and 8-Pos. Board-mount Tab Headers (Horizontal) . . . . . | 92, 93 |

#### D-5200M $\alpha$ — High Current Type

|                                                                                                               |        |
|---------------------------------------------------------------------------------------------------------------|--------|
| Typical Applications, Mating Combinations, Ordering Information and Keying . . . . .                          | 94     |
| Dimensions (Mating and External), Receptacle Housings and<br>Board-mounting Tab Header (Horizontal) . . . . . | 95, 96 |

#### DZ-5200 — Board-to-Board

|                                                                                                 |    |
|-------------------------------------------------------------------------------------------------|----|
| Performance Characteristics, External Dimensions, and<br>Receptacle Header (Vertical) . . . . . | 97 |
| Tab Header (Horizontal) . . . . .                                                               | 98 |

#### D-5300 — Panel Mount Type

|                                                                                  |     |
|----------------------------------------------------------------------------------|-----|
| Introduction and Performance Characteristics . . . . .                           | 99  |
| Dimensions (Mating and External), Panel Mount Receptacle & Tab Housing . . . . . | 100 |

### AMP Dynamic with HTS Connectors

|                                                                                |     |
|--------------------------------------------------------------------------------|-----|
| Introduction, Performance Characteristics and Contacts (D-2 and D-3) . . . . . | 101 |
| D-2800, 30-Pos. Receptacle & Tab Housings . . . . .                            | 102 |
| D-3800, 12-Pos. Receptacle & Tab Housings . . . . .                            | 102 |
| HTS Modular Frames and Metal Housings (Sizes 3, 4, 6 and 8) . . . . .          | 104 |
| HTS Cable Gland Fittings (Plastic and Metal) . . . . .                         | 105 |

#### Power Connector — Board-to-Board

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Specifications, Typical Applications and Ordering Information . . . . . | 106 |
| Dimensions (Mating and External) . . . . .                              | 107 |

### Dyna-Tap Connectors

|                                                                                                  |     |
|--------------------------------------------------------------------------------------------------|-----|
| D-3100, 18-Pos. Introduction, Applications and Performance Characteristics . . . . .             | 108 |
| Dimensions (Mating and External), 18-Pos. Tab Housing and<br>6-Pos. Receptacle Housing . . . . . | 109 |
| D-3200, 24-Pos. Introduction and Performance Characteristics . . . . .                           | 110 |
| Dimensions (Mating and External), 24-Pos. Tab Housing and<br>4-Pos. Receptacle Housing . . . . . | 111 |

### Dyna-Clamp Kit

|                                                                                          |     |
|------------------------------------------------------------------------------------------|-----|
| Introduction, Applications and Performance Characteristics . . . . .                     | 112 |
| Dimensions (Mating and External), 3-Pos. Cable Clamp Kit and Mating Connectors . . . . . | 113 |

|                             |          |
|-----------------------------|----------|
| Part Number Index . . . . . | 114, 115 |
|-----------------------------|----------|

|                           |     |
|---------------------------|-----|
| Global Contacts . . . . . | 119 |
|---------------------------|-----|

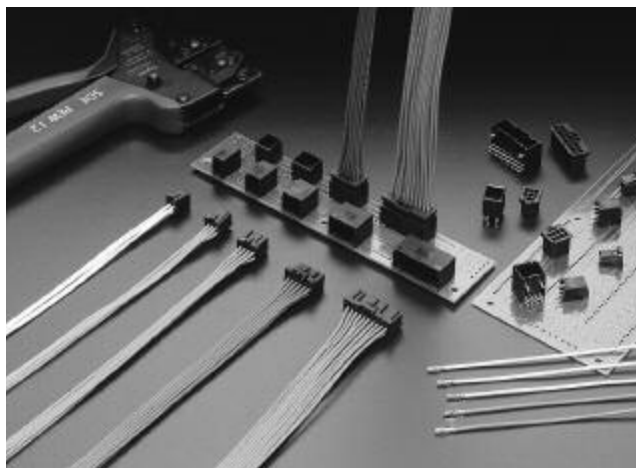
## D-1000 Series (Wire-to-Board, Wire-to-Panel and Wire-to-Wire)

### Product Facts

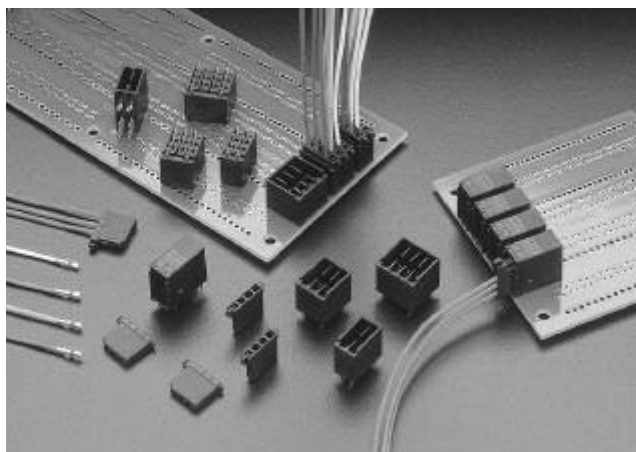
- Header and tab connectors have enough length from the tip of contact to top of housing to help prevent contact from bending when receptacle mates to tab connector.
- D-1000 has housing lance structure. Without contact lance, it is expected to avoid contact lance broken in terminal process handling
- Clear identification of circuit number provides for correct wiring
- Metal retention leg assembly tab header helps prevent damage from unexpected cable tension
- Housing lock design



D-1100



D-1200



D-1500

D-1000 Series are the smallest connectors for signal lines in the Dynamic connector series. D-1000 Series occupies 40% less volume than the D-2000 Series, so it can contribute to customers' equipment miniaturizing requirement.

D-1000 Series receptacle and tab contacts have a wide wire range, 30 through 18 AWG with 2.2 mm wire insulation diameter maximum, which is commonly used for electrical cabinet wiring.

D-1000 Series housings consist of D-1110 Series for 2.0 mm centerline and D-1200 Series for 2.5 mm centerline as the standard type. In addition, D-1500 Series housings are for 3.5 mm centerline sensor applications or branch connection of power lines.

D-1000 Series has gold plated contacts as standard and also tin plated contacts for economical market needs. Customers have a choice of contacts depending on specifications, application, and cost.

Crimping hand tool features a changeable die set structure. It offers minimal installation tooling cost. This tooling system will evolve to D-2000, D-3000 and D-4000 Series in the future.

## D-1000 Series (Continued)

### D-1 Contact and Performance Specifications

#### Crimp Type

| Applicable Wire Range |      | Wire Ins. Diameter mm | Wire Range Mark | Style       | Contact Part Numbers |             |              |             | Tool Numbers    |                                    |
|-----------------------|------|-----------------------|-----------------|-------------|----------------------|-------------|--------------|-------------|-----------------|------------------------------------|
|                       |      |                       |                 |             | Receptacle Contact   |             | Tab Contact  |             | Mini Applicator | Hand Tool <sup>1</sup> (Dies Only) |
|                       |      |                       |                 |             | Gold Plating         | Tin Plating | Gold Plating | Tin Plating |                 |                                    |
| 30                    | 0.05 | 0.6~1.2               | S               | Strip Form  | 1827569-2            | —           | 1903111-2    | —           | 1891033-2       | —                                  |
| 28                    | 0.09 |                       |                 | Loose Piece | 1827586-2            | —           | 1903115-2    | —           | —               | 1762952-1<br>(1762953-1)           |
| 28                    | 0.08 | 1.08~1.6              | M               | Strip Form  | 1827570-2            | 1871303-1   | 1903112-2    | 1903120-1   | 1891035-2       | —                                  |
| 26                    | 0.12 |                       |                 | Loose Piece | 1827587-2            | 1871743-1   | 1903116-2    | 1903124-1   | —               | 1762846-1<br>(1762847-1)           |
| 24                    | 0.20 |                       |                 |             |                      |             |              |             |                 |                                    |
| 22                    | 0.38 |                       |                 |             |                      |             |              |             |                 |                                    |
| 28                    | 0.08 | 1.08~1.9              | L               | Strip Form  | 1827571-2            | 1871304-1   | 1903113-2    | 1903121-1   | 1891036-2       | —                                  |
| 26                    | 0.12 |                       |                 | Loose Piece | 1827588-2            | 1871744-1   | 1903117-2    | 1903125-1   | —               | 1762950-1<br>(1762951-1)           |
| 24                    | 0.20 |                       |                 |             |                      |             |              |             |                 |                                    |
| 22                    | 0.38 |                       |                 |             |                      |             |              |             |                 |                                    |
| 22                    | 0.34 | 1.4~2.2               | 2L              | Strip Form  | 1827572-2            | 1871731-1   | 1903114-2    | 1903122-1   | 1891037-2       | —                                  |
| 20                    | 0.50 |                       |                 | Loose Piece | 1827589-2            | 1871745-1   | 1903118-2    | 1903126-1   | —               | 1762625-1<br>(1762626-1)           |
| 18                    | 0.86 |                       |                 |             |                      |             |              |             |                 |                                    |

Notes: Minimum order quantity for tooling is one.

Tin plating: 2.0 µm.

Mini-Applicators are for use with automachines. (For more information, contact Technical Support at the numbers listed below.)

Strip Form contacts are for use with Mini-Applicators (automachines) and Loose-Piece contacts are for Hand tools.

The contacts L and 2L do **not** fit into the D-1100 receptacle housing.

<sup>1</sup> With handle.

#### Performance Characteristics

| Series —                          | D-1100                    | D-1200                    | D-1500                    |
|-----------------------------------|---------------------------|---------------------------|---------------------------|
| Pitch —                           | 2.0 mm                    | 2.5 mm                    | 3.5 mm                    |
| Voltage Rating —                  | 125 VAC                   | 250 VAC                   | 250 VAC                   |
| Current Rating (Max.) —           | Pos. :3A<br>(AWG 22 wire) | Pos. :5A<br>(AWG 18 wire) | Pos. :5A<br>(AWG 18 wire) |
| Contact Resistance —              | 20 mΩ max.                | 20 mΩ max.                | 20 mΩ max.                |
| Dielectric Withstanding Voltage — | 700 V                     | 1100 V                    | 1100 V                    |
| Temperature Range —               | -55°C~+105°C              | -55°C~+105°C              | -55°C~+105°C              |

\*When connectors are used singly.

#### Material and Finish

**Receptacle Contact** — Copper alloy, 0.38 µm gold plated over 1.27 µm nickel underplate

**Tab Contact** — Copper alloy, 0.38 µm gold plated over 1.27 µm nickel underplate

**PCB Tab Post** — Copper alloy, 0.38 µm gold plated over 1.27 µm nickel underplate, Tab Post 2.0 µm tin plated

**Housing** — Glass-filled polyester (PBT), UL94V-0

#### Specifications and Instruction Sheets

##### Product Specifications

108-78268 (Gold plating)

108-78298 (Tin plating)

##### Application Specification

114-5377

##### Crimping Tool Instruction Sheets

411-78194 (Part Number 1762625-1)

411-78201 (Part Number 1762846-1)

411-78204 (Part Number 1762950-1)

411-78205 (Part Number 1762952-1)

#### Safety Specifications for D-1000 Series

|                                                | Voltage Rating   | Current Rating  | Temperature Rating |
|------------------------------------------------|------------------|-----------------|--------------------|
| Tyco Electronics Specifications<br>108-78268 — | 125 VAC (2 mm)   | 3A (1 position) | -55°C~+105°C       |
|                                                | 250 VAC (2.5 mm) | 5A (1 position) |                    |
|                                                | 250 VAC (3.5 mm) |                 |                    |

**UL File Number** — E 28476

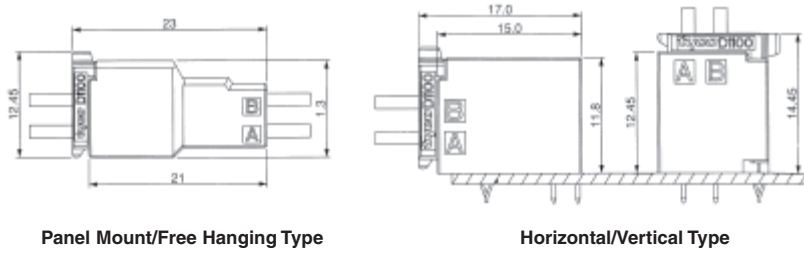
**CSA Report Number** — Pending Approval

**TUV License Number** — Pending Approval

## D-1000 Series (Continued)

### D-1100D

#### Mating Dimensions



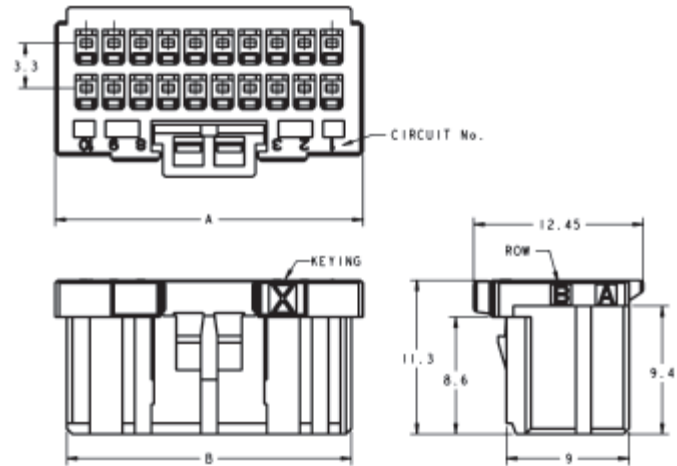
Panel Mount/Free Hanging Type

Horizontal/Vertical Type

#### External Dimensions

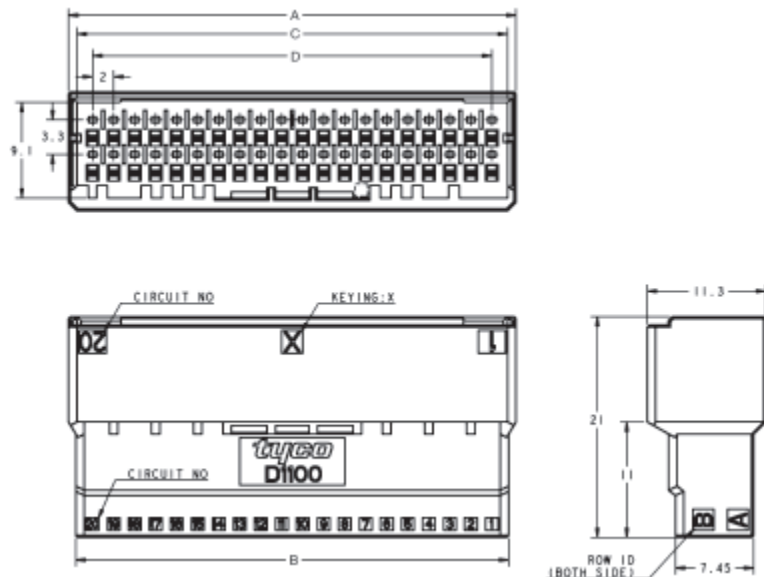
##### Receptacle Housing

| No. of Pos. | Color   | Part No.    | Dimensions |      |
|-------------|---------|-------------|------------|------|
|             |         |             | A          | B    |
| 10          | Black   | 1-1827862-5 | 12.6       | 10.9 |
| 20          | Black   | 1-1827862-0 | 22.6       | 20.9 |
| 22          | Black   | 1-1827863-1 | 24.6       | 22.9 |
|             | Yellow  | 3-1871057-1 |            |      |
| 26          | Black   | 1-1827863-3 | 28.6       | 26.9 |
|             | Natural | 1-1871057-3 |            |      |
| 28          | Black   | 1-1827863-4 | 30.6       | 28.9 |
|             | Black   | 1-1827863-5 |            |      |
| 30          | Natural | 1-1871057-5 | 32.6       | 30.9 |
|             | Yellow  | 3-1871057-5 |            |      |
| 32          | Black   | 1-1827863-6 | 34.6       | 32.9 |
| 34          | Black   | 1-1827863-7 | 36.6       | 34.9 |
| 40          | Black   | 1-1827863-0 | 42.6       | 40.9 |



##### Tab Housing

##### Panel Mount Type/ Free Hanging Type

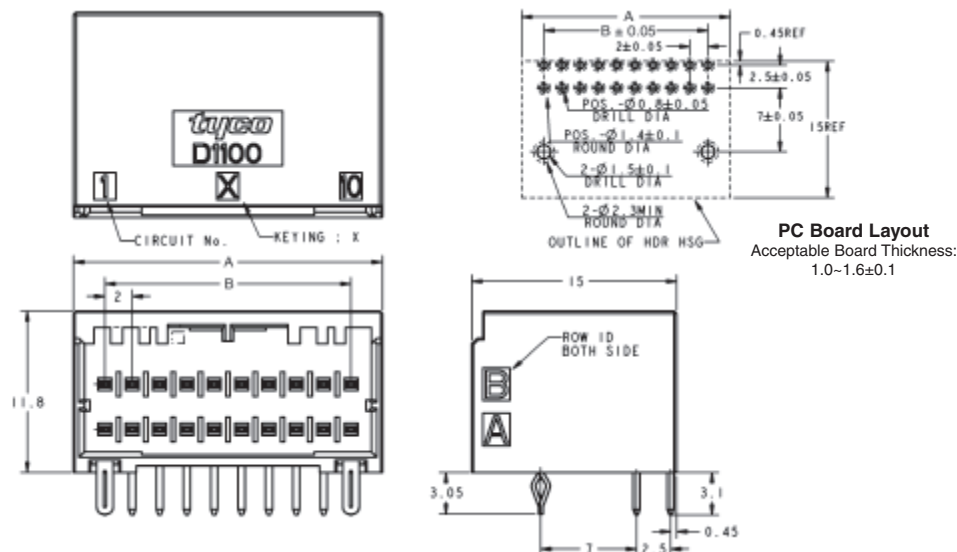


| No. of Pos. | Part No.         |                   | Dimensions |      |      |      |
|-------------|------------------|-------------------|------------|------|------|------|
|             | Panel Mount Type | Free Hanging Type | A          | B    | C    | D    |
| 22          | 1-1903128-1      | 1-1903127-1       | 24.6       | 23.2 | 23.0 | 20.0 |
| 26          | 1-1903128-3      | 1-1903127-3       | 28.6       | 27.2 | 27.0 | 24.0 |
| 28          | 1-1903128-4      | 1-1903127-4       | 30.6       | 29.2 | 29.0 | 26.0 |
| 32          | 1-1903128-6      | 1-1903127-6       | 34.6       | 33.2 | 33.0 | 30.0 |
| 34          | 1-1903128-7      | 1-1903127-7       | 36.6       | 35.2 | 35.0 | 32.0 |
| 40          | 1-1903128-0      | 1-1903127-0       | 42.6       | 41.2 | 41.0 | 38.0 |

## D-1000 Series (Continued)

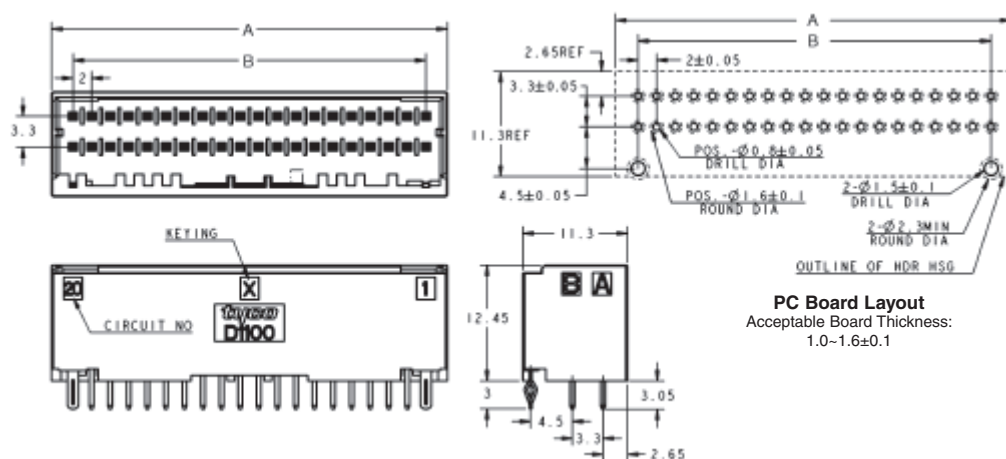
### D-1100D

#### Board Mount Tab Header (Horizontal Type)



| No. of Pos. | Part No.    | Dimensions |      |
|-------------|-------------|------------|------|
|             |             | A          | B    |
| 10          | 1-1827873-5 | 12.6       | 8.0  |
| 20          | 1-1827873-0 | 22.6       | 18.0 |

#### Board Mount Tab Header (Vertical Type)

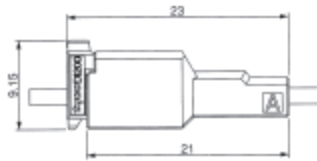


| No. of Pos. | Plating | Color   | Part No.    | Dimensions |      |
|-------------|---------|---------|-------------|------------|------|
|             |         |         |             | A          | B    |
| 22          | Gold    | Black   | 1-1827872-1 | 24.6       | 20.0 |
|             | Tin     | Yellow  | 3-1871056-1 |            |      |
| 26          | Gold    | Black   | 1-1827872-3 | 28.6       | 24.0 |
|             | Tin     | Natural | 1-1871056-3 |            |      |
| 28          | Gold    | Black   | 1-1827872-4 | 30.6       | 26.0 |
|             | Tin     | Natural | 1-1871056-4 |            |      |
| 30          | Gold    | Black   | 1-1827872-5 | 32.6       | 28.0 |
|             | Tin     | Black   | 1-1871315-5 |            |      |
|             | Tin     | Natural | 1-1871056-5 |            |      |
| 32          | Gold    | Black   | 1-1827872-6 | 34.6       | 30.0 |
|             | Tin     | Black   | 1-1871315-6 |            |      |
| 34          | Gold    | Black   | 1-1827872-7 | 36.6       | 32.0 |
|             | Tin     | Black   | 1-1871315-7 |            |      |
| 40          | Gold    | Black   | 1-1827872-0 | 42.6       | 38.0 |
|             | Tin     | Black   | 1-1871315-0 |            |      |

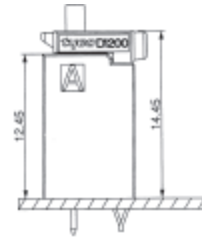
## D-1000 Series (Continued)

### D-1200S

#### Mating Dimensions



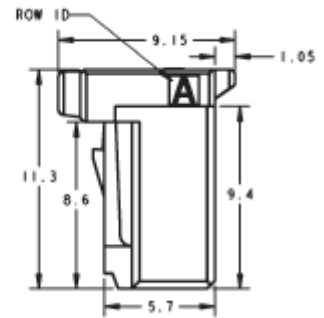
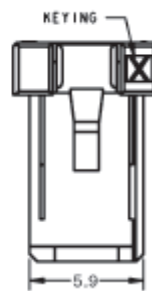
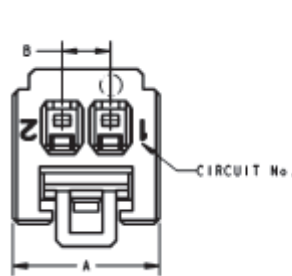
Free Hanging Type



Vertical Type

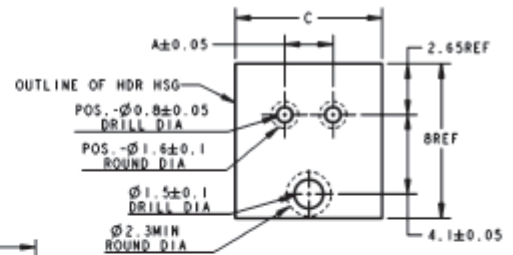
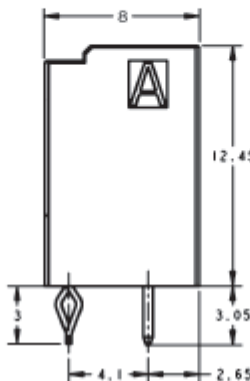
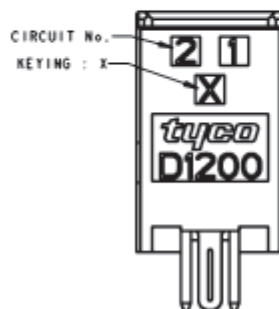
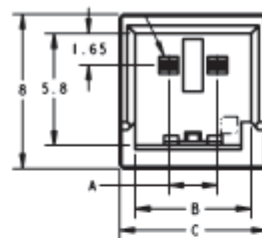
#### Dimensions

##### Receptacle Housing



| No. of Pos. | Keying | Part No.    | Dimensions |     |
|-------------|--------|-------------|------------|-----|
|             |        |             | A          | B   |
| 2           | X      | 1-1871465-2 | 7.6        | 2.5 |
|             | Y      | —           | —          | —   |

#### Board Mount Tab Header (Vertical Type)



**PC Board Layout**  
Acceptable Board Thickness:  
1.0~1.6±0.1

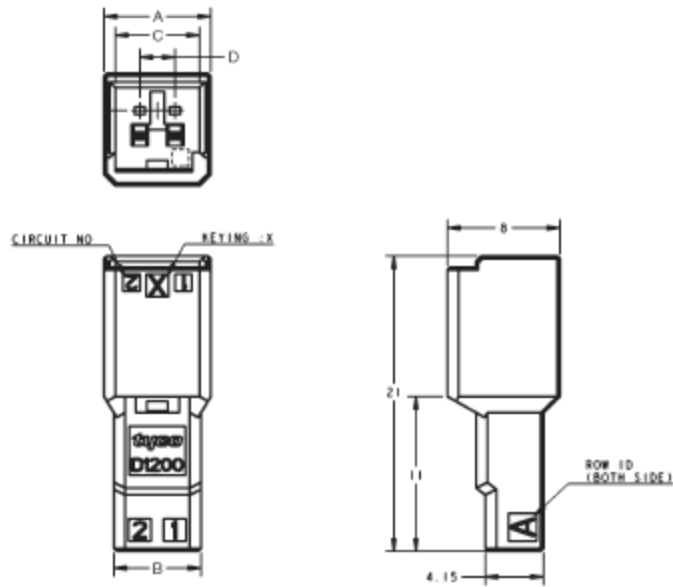
| No. of Pos. | Keying | Part No.    | Dimensions |     |     |
|-------------|--------|-------------|------------|-----|-----|
|             |        |             | A          | B   | C   |
| 2           | X      | 1-1871468-2 | 2.5        | 6.0 | 7.6 |
|             | Y      | —           | —          | —   | —   |

## D-1000 Series (Continued)

### D-1200S

Tab Housing

Free Hanging Type

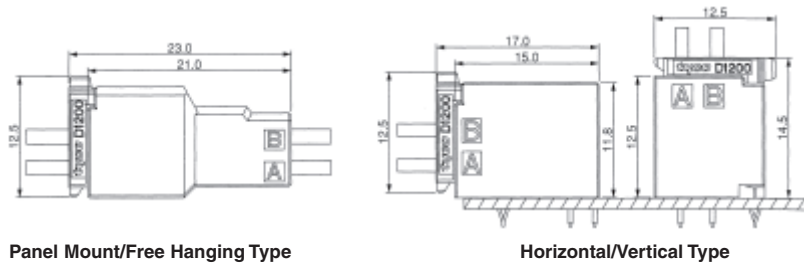


| No. of Pos. | Keying | Part No.          | Dimensions |     |     |     |
|-------------|--------|-------------------|------------|-----|-----|-----|
|             |        | Free Hanging Type | A          | B   | C   | D   |
| 2           | X      | 1-1903129-2       | 7.6        | 6.2 | 6.0 | 2.5 |
|             | Y      | —                 | —          | —   | —   | —   |

## D-1000 Series (Continued)

### D-1200D

#### Mating Dimensions



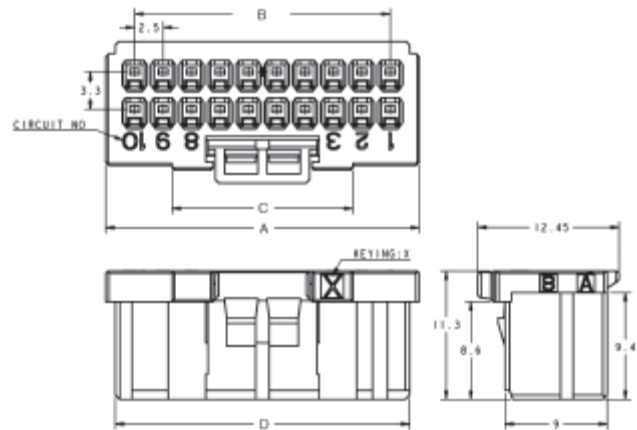
Panel Mount/Free Hanging Type

Horizontal/Vertical Type

#### Dimensions

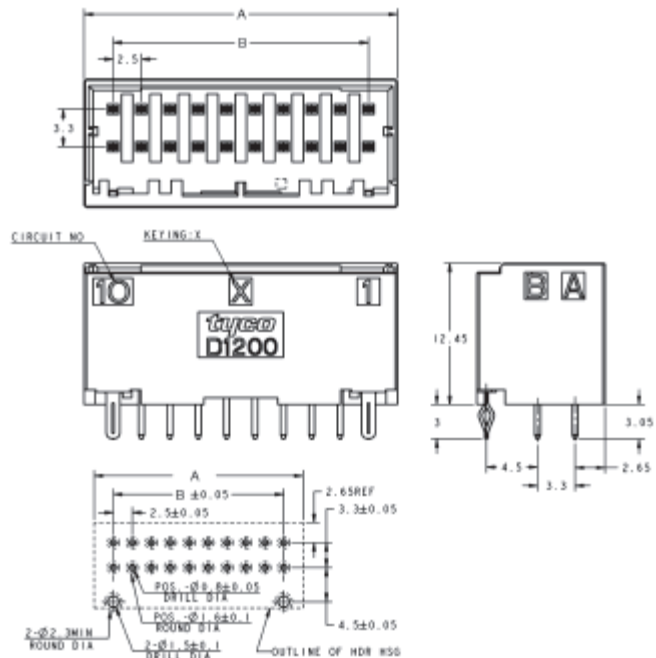
##### Receptacle Housing

| No. of Pos. | Keying | Part No.    | Dimensions |      |      |      |
|-------------|--------|-------------|------------|------|------|------|
|             |        |             | A          | B    | C    | D    |
| 4           | X      | 1-1827864-2 | 7.6        | 2.5  | —    | 5.9  |
|             | Y      | 2-1827864-2 |            |      |      |      |
| 6           | X      | 1-1827864-3 | 10.1       | 5.0  | 8.4  | 8.4  |
|             | Y      | 2-1827864-3 |            |      |      |      |
| 8           | X      | 1-1827864-4 | 12.6       | 7.5  | 10.9 | 10.9 |
|             | Y      | 2-1827864-4 |            |      |      |      |
| 10          | X      | 1-1827864-5 | 15.1       | 10.0 | 10.9 | 13.4 |
|             | Y      | 2-1827864-5 |            |      |      |      |
| 12          | X      | 1-1827864-6 | 17.6       | 12.5 | 15.9 | 15.9 |
|             | Y      | 2-1827864-6 |            |      |      |      |
| 20          | X      | 1-1827864-0 | 27.6       | 22.5 | 15.9 | 25.9 |
|             | Y      | 2-1827864-0 |            |      |      |      |



##### Board Mount Tab Header (Vertical Type)

| No. of Pos. | Keying | Part No.    | Dimensions |      |
|-------------|--------|-------------|------------|------|
|             |        |             | A          | B    |
| 4           | X      | 1-1827875-2 | 7.6        | 2.5  |
|             | Y      | 2-1827875-2 |            |      |
| 6           | X      | 1-1827875-3 | 10.1       | 5.0  |
|             | Y      | 2-1827875-3 |            |      |
| 8           | X      | 1-1827875-4 | 12.6       | 7.5  |
|             | Y      | 2-1827875-4 |            |      |
| 10          | X      | 1-1827875-5 | 15.1       | 10.0 |
|             | Y      | 2-1827875-5 |            |      |
| 12          | X      | 1-1827875-6 | 17.6       | 12.5 |
|             | Y      | 2-1827875-6 |            |      |
| 20          | X      | 1-1827875-0 | 27.6       | 22.5 |
|             | Y      | 2-1827875-0 |            |      |



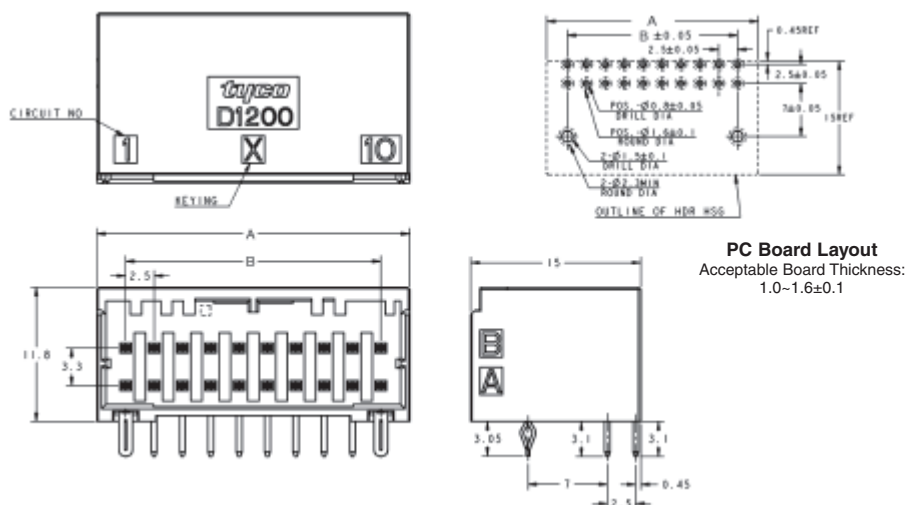
##### PC Board Layout

Acceptable Board Thickness:  
1.0-1.6±0.1

### D-1000 Series (Continued)

## D-1200D

### Board Mount Tab Header (Horizontal Type)

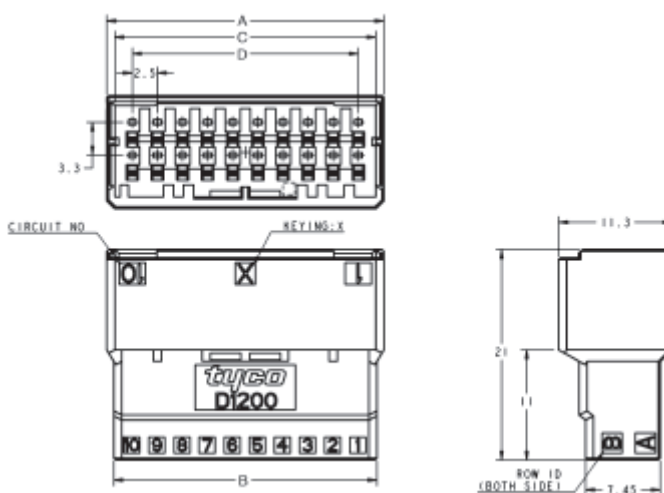


| No. of Pos. | Part No.     | Dimensions |      |
|-------------|--------------|------------|------|
|             |              | A          | B    |
| 4           | 1-1827876-2  | 7.6        | 2.5  |
|             | 1-1871673-2* |            |      |
| 6           | 1-1827876-3  | 10.1       | 5.0  |
| 8           | 1-1827876-4  | 12.6       | 7.5  |
| 12          | 1-1827876-6  | 17.6       | 12.5 |
|             | 1-1871673-6* |            |      |
| 20          | 1-1827876-0  | 27.6       | 22.5 |

\* Marked tab posts are tin plated. Other tab posts are gold plated.

## Tab Housing

### Panel Mount Type/ Free Hanging Type



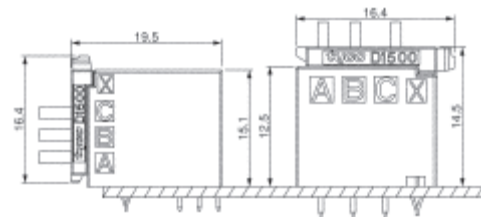
| No. of Pos. | Part No.         |                   | Dimensions |      |      |      |
|-------------|------------------|-------------------|------------|------|------|------|
|             | Panel Mount Type | Free Hanging Type | A          | B    | C    | D    |
| 4           | 1-1903131-2      | 1-1903130-2       | 7.6        | 6.2  | 6.0  | 2.5  |
| 6           | 1-1903131-3      | 1-1903130-3       | 10.1       | 8.7  | 8.5  | 5.0  |
| 8           | 1-1903131-4      | 1-1903130-4       | 12.6       | 11.2 | 11.0 | 7.5  |
| 12          | 1-1903131-6      | 1-1903130-6       | 17.6       | 16.2 | 16.0 | 12.5 |
| 20          | 1-1903131-0      | 1-1903130-0       | 27.6       | 26.2 | 26.0 | 22.5 |

Please contact Technical Support about Y-Key.

## D-1000 Series (Continued)

### D-1500T

#### Mating Dimensions

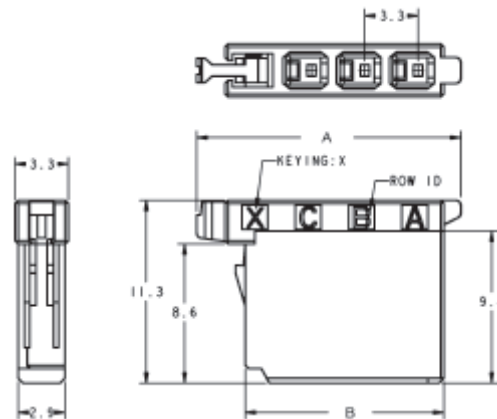


Horizontal/Vertical Type

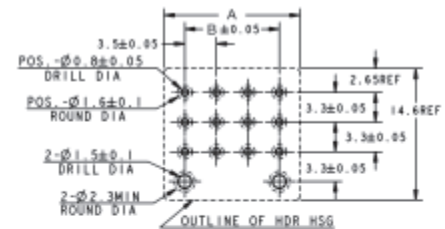
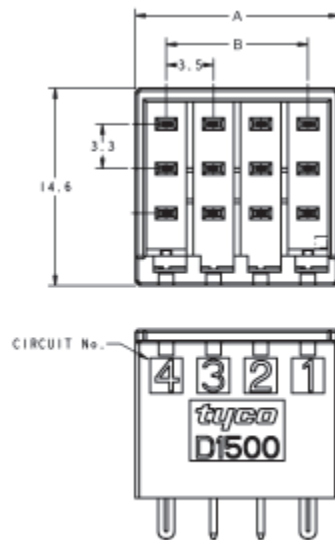
#### Dimensions

##### Receptacle Housing

| No. of Pos. | Part No.    | Dimensions |      |
|-------------|-------------|------------|------|
|             |             | A          | B    |
| 3           | 1-1827579-1 | 16.35      | 12.3 |

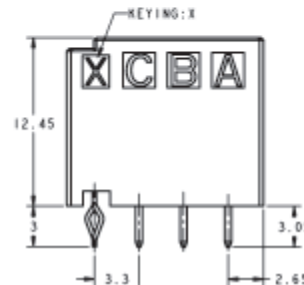


##### Board Mount Tab Header (Vertical Type)



PC Board Layout  
Acceptable Board Thickness:  
1.0~1.6±0.1

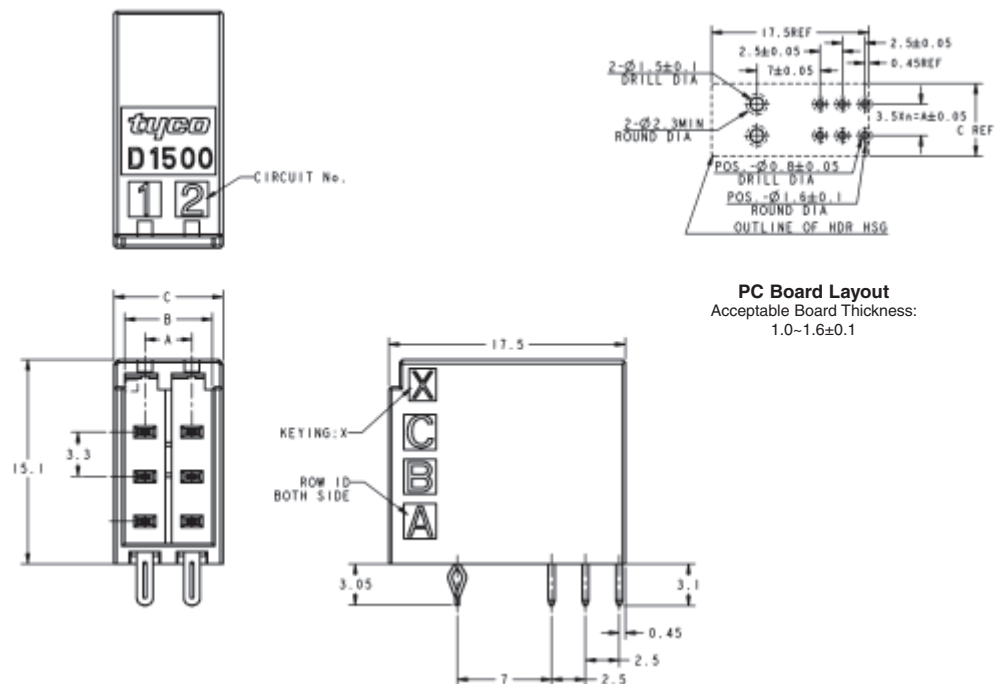
| No. of Pos. | Part No.    | Dimensions |      |
|-------------|-------------|------------|------|
|             |             | A          | B    |
| 6           | 1-1827581-2 | 8.1        | 3.5  |
| 9           | 1-1827581-3 | 11.6       | 7.0  |
| 12          | 1-1827581-4 | 15.1       | 10.5 |



### D-1000 Series (Continued)

## D-1500T

### Board Mount Tab Header (Horizontal Type)



| No. of Pos. | Part No.    | Dimensions |     |     |
|-------------|-------------|------------|-----|-----|
|             |             | A          | B   | C   |
| 6           | 1-1827583-2 | 3.5        | 6.5 | 8.1 |

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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