



# AMP Dynamic Series Connectors

RoHS  
Ready 

 **Tyco Electronics**  
Our commitment. Your advantage.

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

### Product Facts

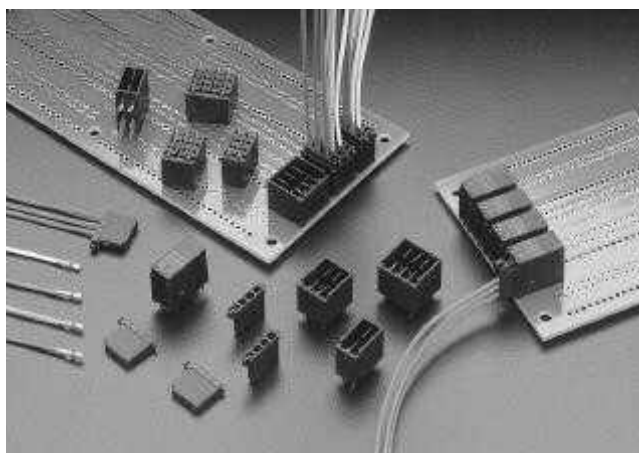
- Header and tab connectors have enough length from the tip of contact to top of housing to help prevent contact from bending when receptacle mates to tab connector.
- D-1000 has housing lance structure. Without contact lance, it is expected to avoid contact lance broken in terminal process handling
- 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	
AWG	mm <sup>2</sup>				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 (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 (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 (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 (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**

<b>Series</b> —	<b>D-1100</b>	<b>D-1200</b>	<b>D-1500</b>
<b>Pitch</b> —	2.0 mm	2.5 mm	3.5 mm
<b>Voltage Rating</b> —	125 VAC	250 VAC	250 VAC
<b>Current Rating (Max.)</b> —	Pos. :3A (AWG 22 wire)	Pos. :5A (AWG 18 wire)	Pos. :5A (AWG 18 wire)
<b>Contact Resistance</b> —	20 mΩ max.	20 mΩ max.	20 mΩ max.
<b>Dielectric Withstanding Voltage</b> —	700 V	1100 V	1100 V
<b>Temperature Range</b> —	-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
<b>Tyco Electronics Specifications</b>	125 VAC (2 mm)	3A (1 position)	-55°C~+105°C
<b>108-78268</b> —	250 VAC (2.5 mm)	5A (1 position)	
	250 VAC (3.5 mm)		

**UL File Number** — E 28476

**CSA Report Number** — Pending Approval

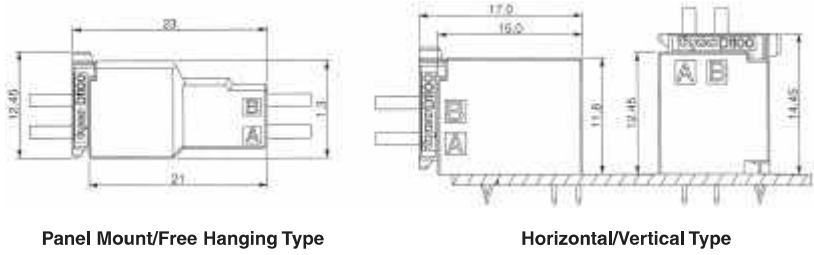
**TUV License Number** — Pending Approval

**D-1000 Series** (Continued)

D-1000 Series

**D-1100D**

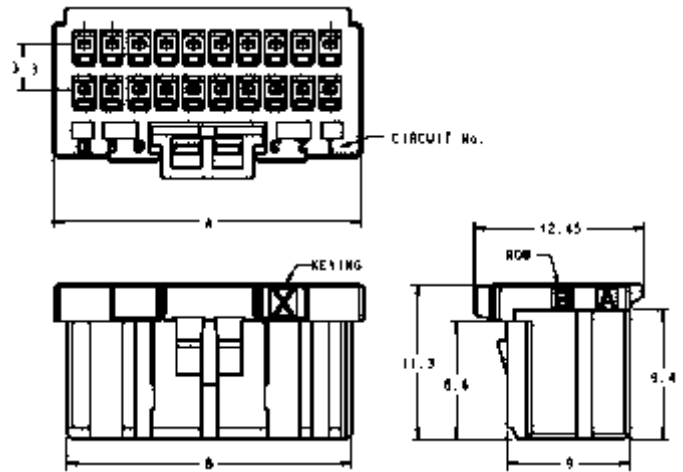
**Mating Dimensions**



**External Dimensions**

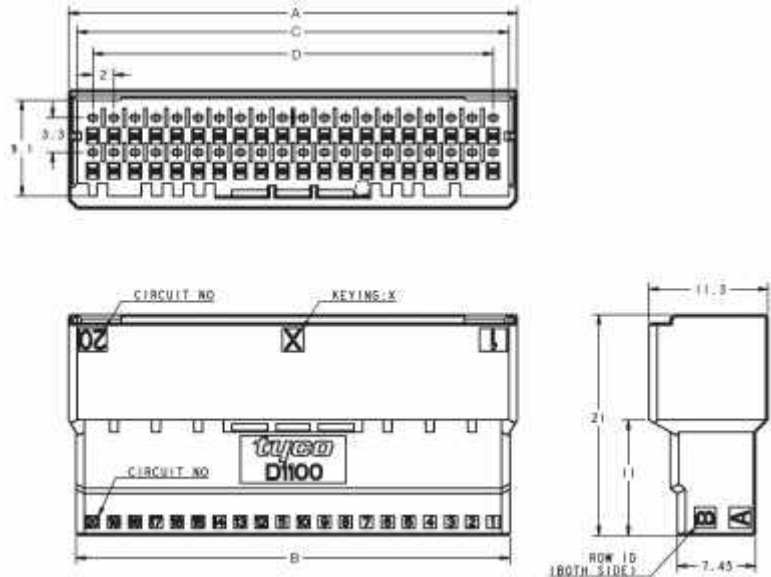
**Receptacle Housing**

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**

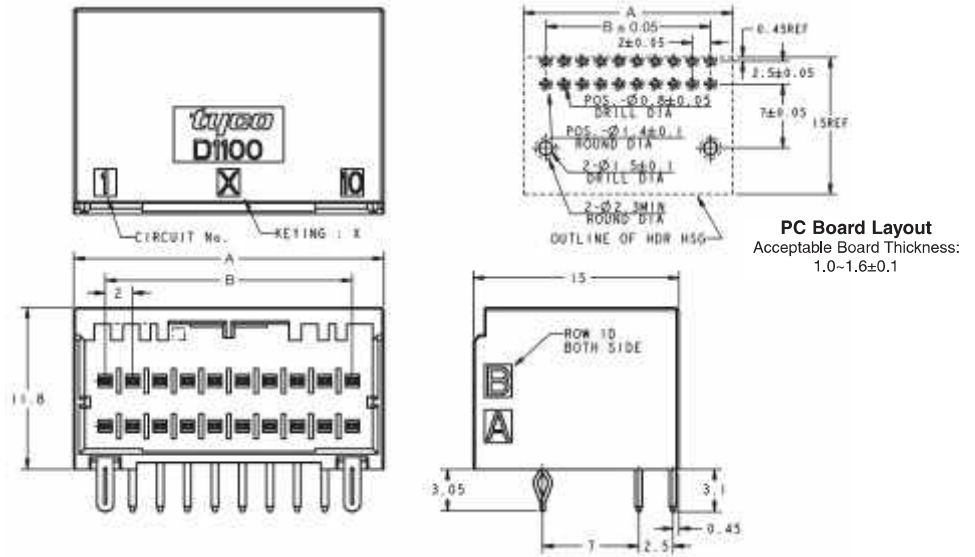


No. of Pos.	Part No.		Dimensions			
	Panel Mount Type	Free Hanging Type	A	B	C	D
22	1-1903128-1	1-1903127-1	24.6	23.2	23.0	20.0
26	1-1903128-3	1-1903127-3	28.6	27.2	27.0	24.0
28	1-1903128-4	1-1903127-4	30.6	29.2	29.0	26.0
32	1-1903128-6	1-1903127-6	34.6	33.2	33.0	30.0
34	1-1903128-7	1-1903127-7	36.6	35.2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

**D-1000 Series** (Continued)

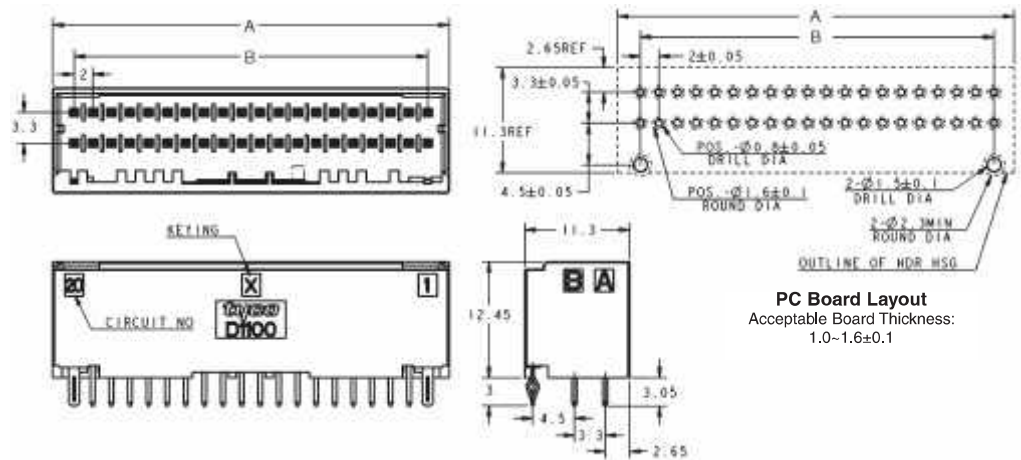
**D-1100D**

**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)**



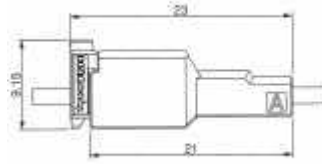
No. of Pos.	Plating	Color	Part No.	Dimensions	
				A	B
22	Gold	Black	1-1827872-1	24.6	20.0
	Tin	Yellow	3-1871056-1		
26	Gold	Black	1-1827872-3	28.6	24.0
	Tin	Natural	1-1871056-3		
28	Gold	Black	1-1827872-4	30.6	26.0
	Gold	Black	1-1827872-5		
30	Tin	Black	1-1871315-5	32.6	28.0
	Tin	Natural	1-1871056-5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

**D-1000 Series** (Continued)

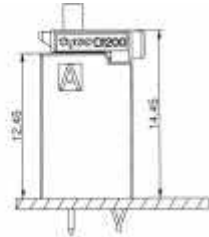
D-1000 Series

**D-1200S**

**Mating Dimensions**



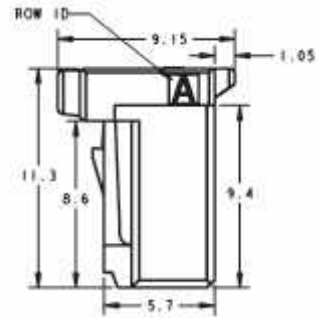
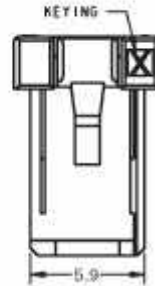
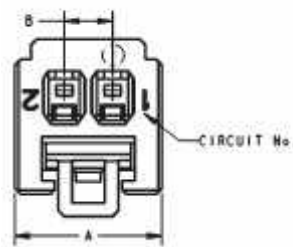
Free Hanging Type



Vertical Type

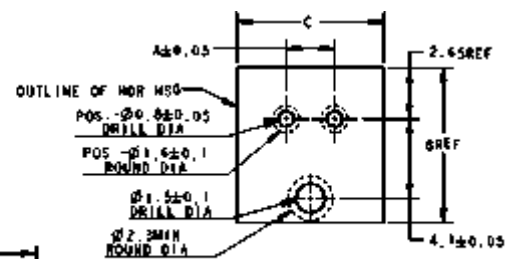
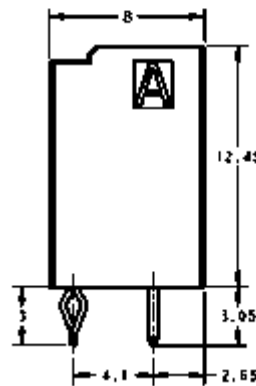
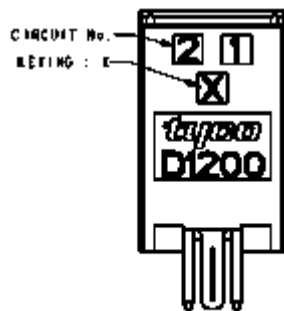
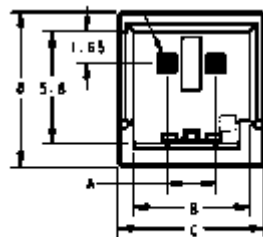
**Dimensions**

**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

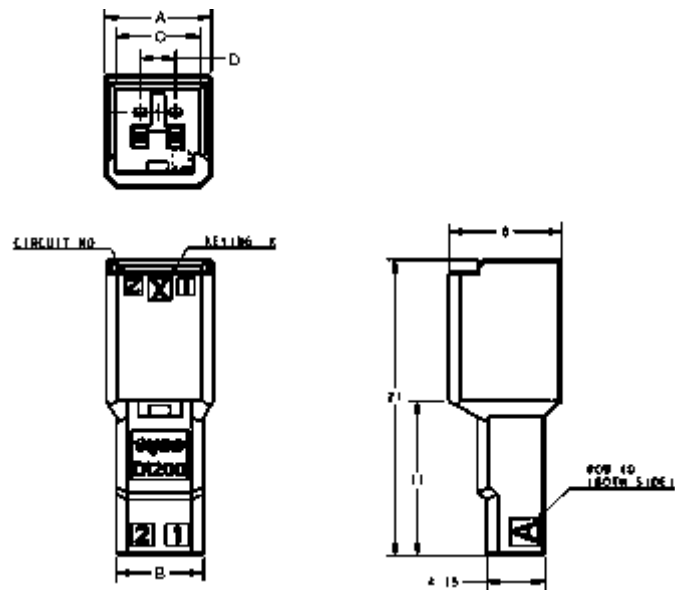
No. of Pos.	Keying	Part No.	Dimensions		
			A	B	C
2	X	1-1871468-2	2.5	6.0	7.6
	Y	—	—	—	—

**D-1000 Series** (Continued)

**D-1200S**

Tab Housing

Free Hanging Type



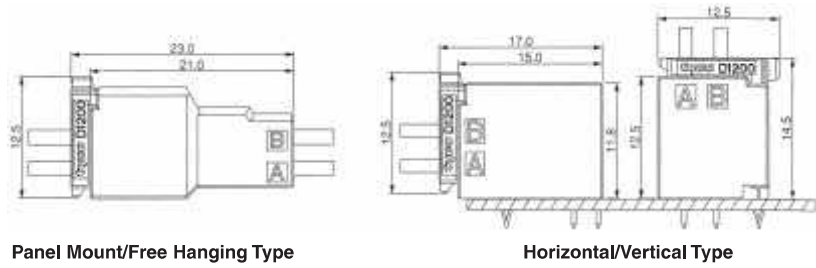
No. of Pos.	Keying	Part No.	Dimensions			
		Free Hanging Type	A	B	C	D
2	X	1-1903129-2	7.6	6.2	6.0	2.5
	Y	—	—	—	—	—

**D-1000 Series** (Continued)

D-1000 Series

**D-1200D**

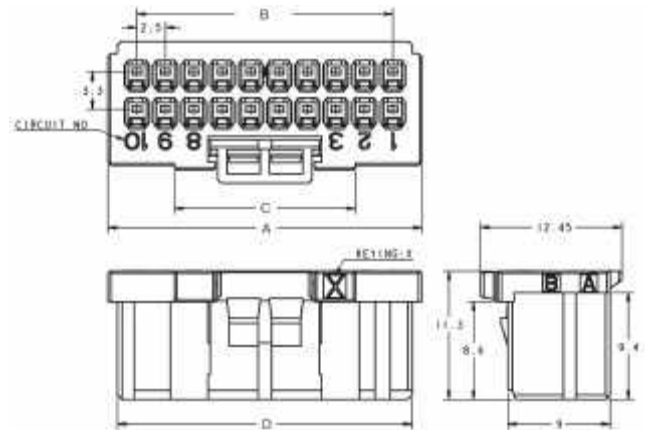
**Mating Dimensions**



**Dimensions**

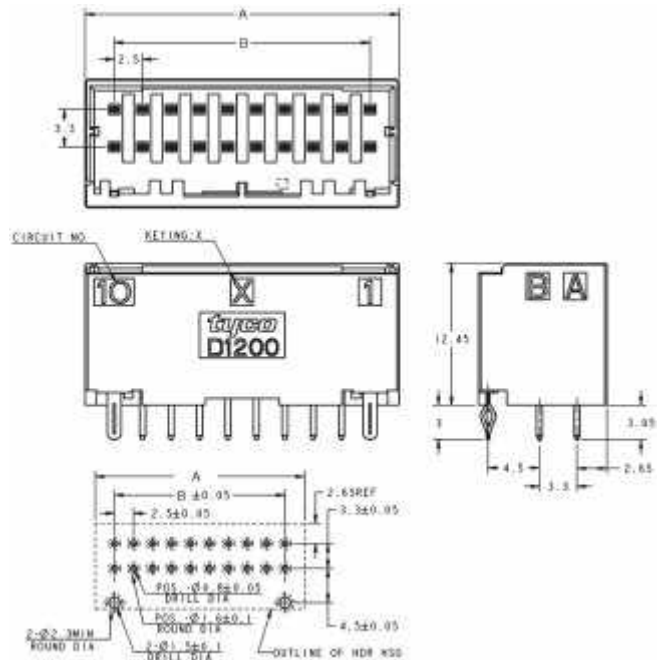
**Receptacle Housing**

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		



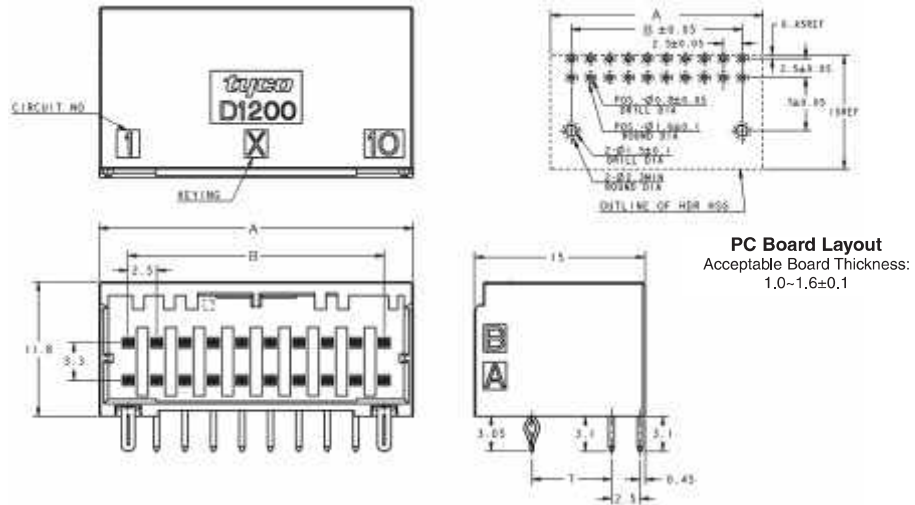
**PC Board Layout**  
Acceptable Board Thickness: 1.0-1.6±0.1



**D-1000 Series** (Continued)

**D-1200D**

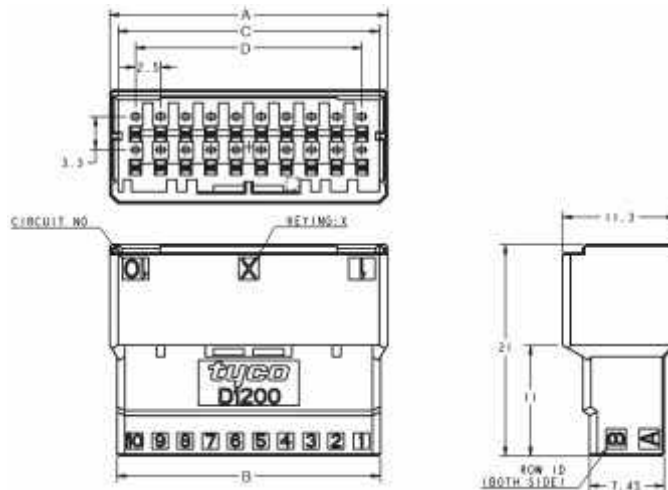
**Board Mount Tab Header  
(Horizontal Type)**



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

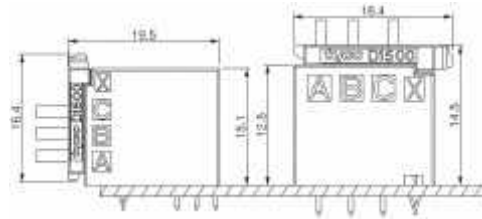
Please contact Technical Support about Y-Key.

**D-1000 Series** (Continued)

D-1000 Series

**D-1500T**

**Mating Dimensions**

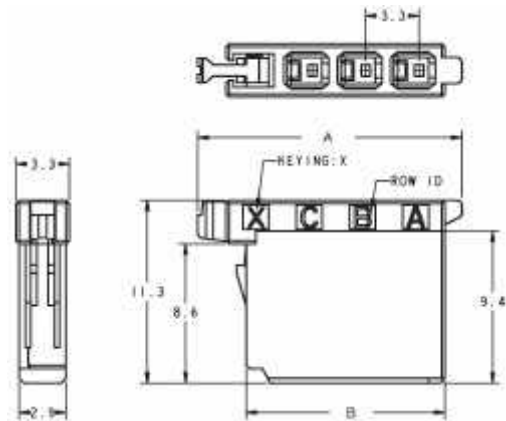


Horizontal/Vertical Type

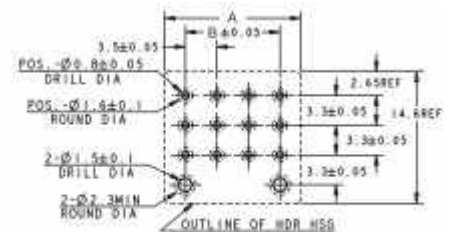
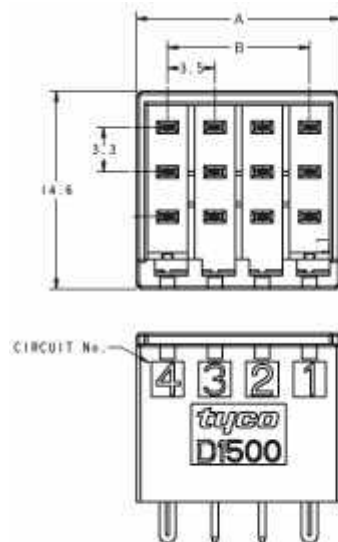
**Dimensions**

**Receptacle Housing**

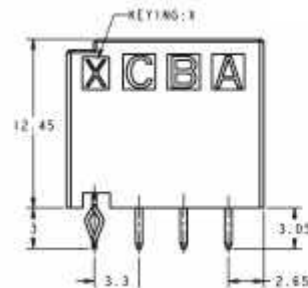
No. of Pos.	Part No.	Dimensions	
		A	B
3	1-1827579-1	16.35	12.3



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



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

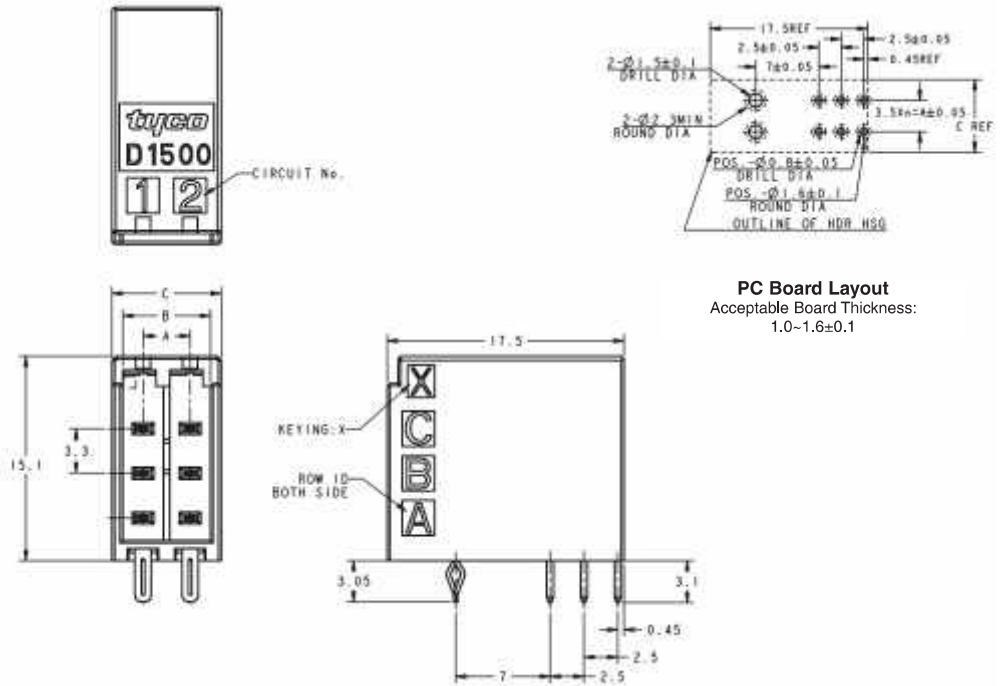


No. of Pos.	Part No.	Dimensions	
		A	B
6	1-1827581-2	8.1	3.5
9	1-1827581-3	11.6	7.0
12	1-1827581-4	15.1	10.5

**D-1000 Series** (Continued)

**D-1500T**

Board Mount Tab Header  
(Horizontal Type)



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

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