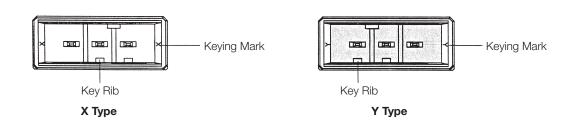
D-3200S (High-Voltage Version of Standard D-3100S) (Continued)

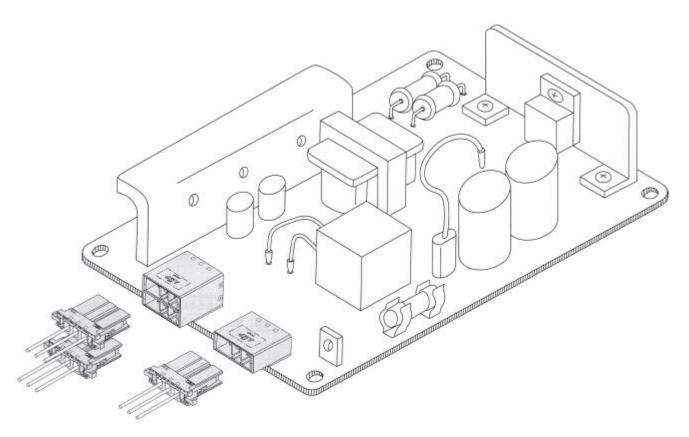
#### Keying

This product (D-3200S) is provided with keying to help prevent mismating of the connector halves. Keying is available in two types – X Type and Y Type . (Shown below is the mating surface of Tab Header.)



#### Applications

Switching regulator-Typical Applications



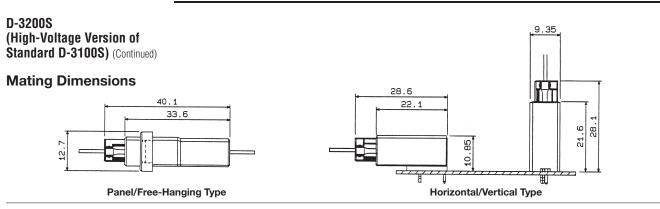
Catalog 1242132 Revised 5-07

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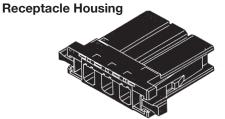
Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 57

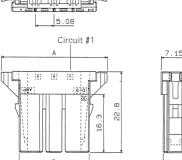
Downloaded from Arrow.com.



# External Dimensions



# Mating Tab Connector Part Number: --179553-0 --316131-0 --179552-0 --917337-0 --179276-0 --178136-0 --178138-0 --917338-0 --179277-0 --316132-0 --316130-0 --316133-0



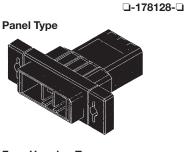
(

Dimensions No. of Part Number Pos. Α В **\_-178128-2** 24.62 14.16 2 □-178128-3 З 29.7 19.24 4 **\_-178128-4** 34.78 24.32 **\_-178128-5** 39.86 5 29.4 **\_-178128-6** 44.94 6 34.48

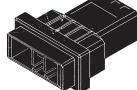
5-and 6-position receptacle housings differ slightly in shape with each other. Check with diagram.

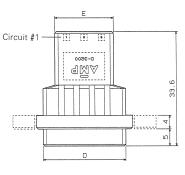
## Tab Housing

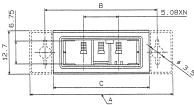
#### Mating Receptacle Housing Part Number:

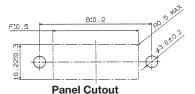


# Free-Hanging Type

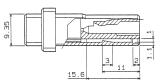








When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].



No. of	Part I	Number	Dimensions					
Pos.	Panel Type	Free-Hanging Type	Α	В	С	D	E	F
2	□-179553-2	□-179552-2	36.83	28	23.03	19.08	12.08	20
3	□-179553-3	□-179552-3	41.91	33	28.11	24.16	17.16	25
4	□-179553-4	□-179552-4	46.99	38	33.19	29.24	22.24	30

58

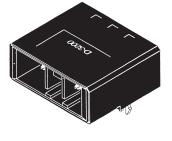
Catalog 1242132 Revised 5-07 Dimensions are in millimeters unless otherwise specified.

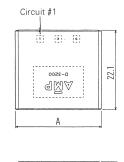
Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

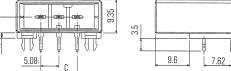
#### D-3200S (High-Voltage Version of Standard D-3100S) (Continued)

## **Board-mounting Tab Header (Horizontal Type)**

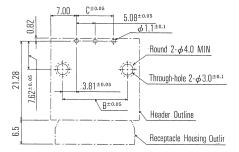
Mating Receptacle Housing Part Number: □-178128-□







Solder tine section is 0.64 sq.



PC Board Layout Acceptable Board Thickness: 1.6-2.4±0.1

0.82

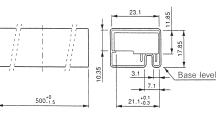
D-3000 Series

No. of	Part Number	Dimensions			
Pos.	Part Number	Α	В	С	
2	□-179276-□	19.08	12.7	5.08	
3	□-178138-□	24.16	17.78	10.16	
4	□-179277-□	29.24	22.86	15.24	
5	□-316130-□	34.32	27.84	20.32	
6	□-316131-□	39.4	33.02	25.4	

6.0

чС.

#### Tube Package Dimensions (Ref.)



## **Board-mounting Tab Header (Vertical Type)**

Part Number

□-917337-□

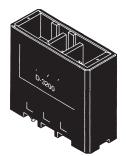
□-178136-□

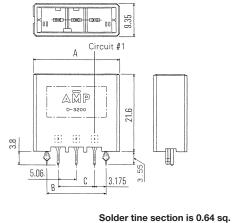
□-917338-□

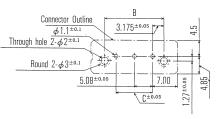
□-316132-□

**\_-316133-**

Mating Receptacle Housing Part Number: □-178128-□

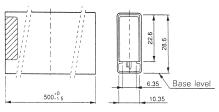






PC Board Layout Acceptable Board Thickness: 1.6-2.4±0.1

#### Tube Package Dimensions (Ref.)



Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

Catalog 1242132 Revised 5-07

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No. of

Pos.

2

3

4

5

6

Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions

В

11.43

16.51

21.59

26.67

31.75

С

5.08

10.16

15.24

20.32

25.4

Α

19.08

24.16

29.24

34.32

39.4

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

59 South America: 55-11-2103-6000

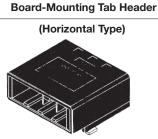
#### D-3200S SMT Type

#### **Receptacle Housing and Board Mount Tab Header**

Appearance Dielectric Withstanding Voltage: 2,200 V (1 min.) Voltage Rating: 600 V (when one connector is used)

**Receptacle Housing** 





Receptacle Contact.....For each line of contacts, refer to the appropriate page.

No. of Positions	Keying	Part Number of Receptacle Housing*	Part Number of Board-Mount Tab Header Horizontal Type
2	Х	1-178128-2	
3	Х	1-178128-3	1-917389-🗆
4	Х	1-178128-4	
5	Х	1-178128-5	
6	Х	1-178128-6	

Note: Enter the following plating codes in Part Number suffix-D. Gold plating only for SMT Type.

-2 = 0.38µm thick gold plating,

-3 = 0.76 µm thick gold plating

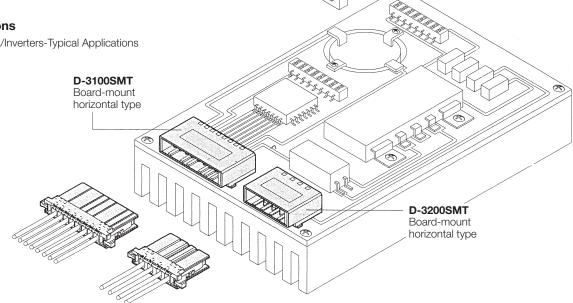
\*Part Numbers are of the same design as D-3200S Series. For dimensions, refer to D-3200S Series.

Header material is PPS.

D-3000 Series

#### **Applications**

Servomotors/Inverters-Typical Applications



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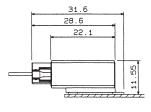
Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

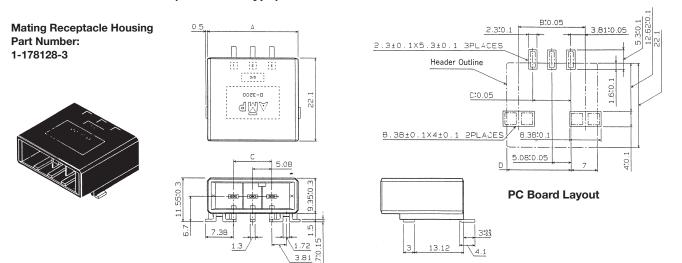
D-3200S SMT Type (Continued)

## **Mating Dimensions**

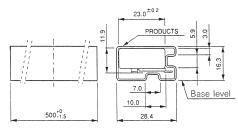


**Horizontal Type** 

## External Dimensions Board-mount Tab Header (Horizontal Type)





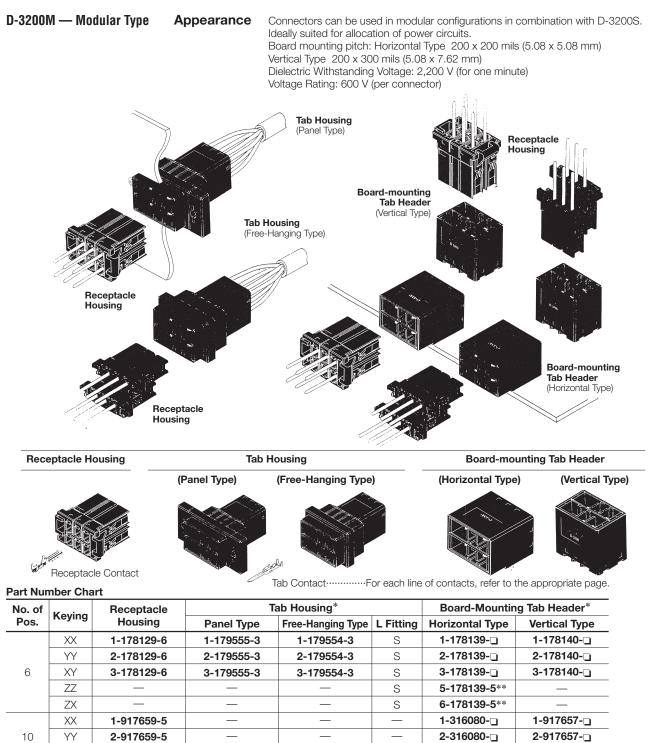


No. of	Part Number of	Dimensions			
Pos.	Tab Header	Α	В	С	D
3	1-917389-🗅	24.16	17.78	10.16	17.16

Catalog 1242132 Revised 5-07

Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 61



No. of	Kauina	Receptacle	Т	ab Housing <sup>*</sup>		Board-Mounting Tab Header*	
Pos. Keying		Housing	Panel Type	Free-Hanging Type	L Fitting	Horizontal Type	Vertical Type
	XX	1-178129-6	1-179555-3	1-179554-3	S	1-178139-🗅	1-178140-🗅
	YY	2-178129-6	2-179555-3	2-179554-3	S	2-178139-🗅	2-178140-🗋
6	XY	3-178129-6	3-179555-3	3-179554-3	S	3-178139-🗅	3-178140-🗅
	ZZ	_		_	S	5-178139-5**	_
	ZX	—	_	_	S	6-178139-5**	_
	XX	1-917659-5	_	_	_	1-316080-🗅	1-917657-🗅
10	YY	2-917659-5		_		2-316080-🗅	2-917657-🗅
	XY	3-917659-5	_	_	_	3-316080-🗅	3-917657-🗅
	XX	1-917659-6	1-179555-6	1-179554-6	_	1-316081-🗅	1-917658-🗅
12	YY	2-917659-6	2-179555-6	2-179554-6	_	2-316081-🗅	2-917658-🗅
	XY	3-917659-6	3-179555-6	3-179554-6	_	3-316081-🗅	3-917658-🗅
20	XX	1-917659-8	1-179555-8	_	—	—	—

Note: Enter the following plating codes in -D after Part Numbers: -2 = 0.38 µm thick gold plating, -3 = 0.76 µm thick gold plating, -5 = Tin plating \*Can also be used in Drawer connector in combination with D-3200M Drawer Type. \*\*Receptacle shall be used in combination of X keying and Z keying of 3 pos. D-3200S

to change.

Dimensions are shown for

reference purposes only. Specifications subject

USA: 1-800-522-6752

Canada: 1-905-470-4425 Mexico: 01-800-733-8926

C. America: 52-55-1106-0803

Dimensions are in millimeters

unless otherwise specified.

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Catalog 1242132 Revised 5-07

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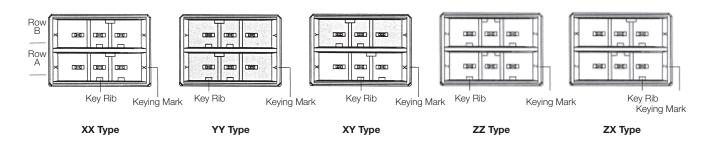
D-3000 Series

## D-3200M — Modular Type

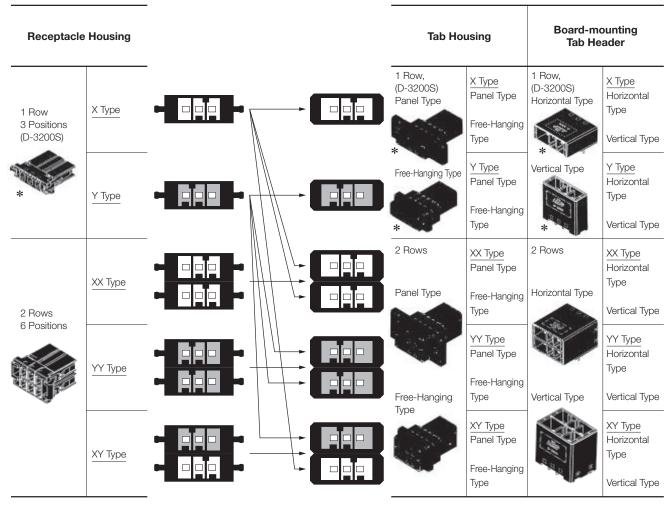
## (Continued)

#### Keying

This product (D-3200M) is provided with keying to help prevent mismating of the connector halves. Keying is available in three types –XX Type, YY Type and XY Type. (Shown below is the mating surface of Tab Header.) ZZ type and ZX type keying are also available for 6 pos.



## **Table of Mating Combinations**

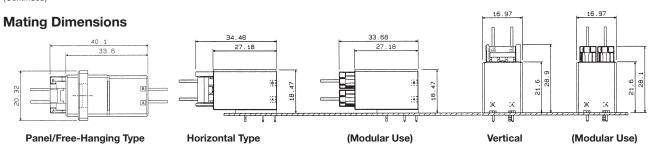


The housing with asterisk (\*) same as D-3200S Series.

Catalog 1242132 Revised 5-07 Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

#### D-3200M — Modular Type (Continued)



## **External Dimensions Receptacle Housing**

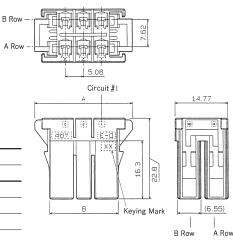
**Tab Housing** 

**Free-Hanging Type** 

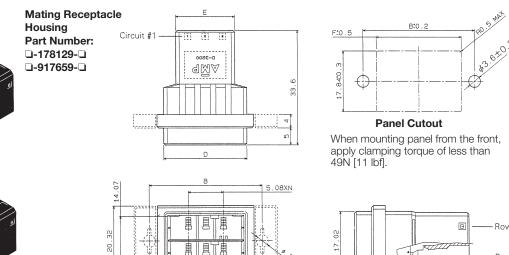
Panel Type

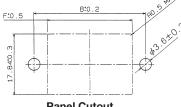


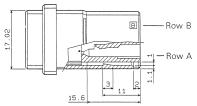
Mating Receptacle Housing				
Part Number:				
□-178139-□	□-917657-□			
□-316080-□	□-917658-□			
□-316081-□	□-179555-□			
□-178140-□	□-179554-□			



No. of		Dimer	nsions
Pos.	Part Number	Α	В
6	□-178129-6	27.3	19.24
10	□-917659-5	37.46	29.4
12	□-917659-6	42.54	34.48
20	□-917659-8	62.86	54.8







1	No. of	Part N	Part Number			Dimensions				
	Pos.	Panel Type	Free-Hanging Type	Α	В	С	D	E	F	
	6	□-179555-3	□-179554-3	41.91	33	28.11	24.16	17.16	25	
	12	□-179555-6	□-179554-6	57.91	49	43.35	39.4	32.4	41	
4	20	□-179555-8	_	78.23	70	_	59.72	52.72	61	

A

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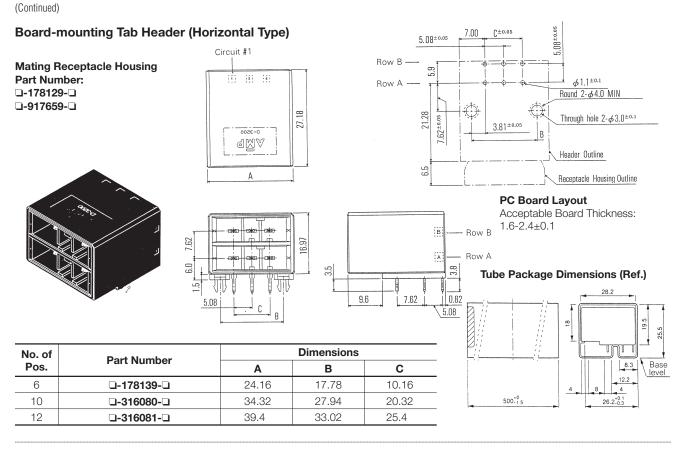
www.tycoelectronics.com

Dimensions are in millimeters unless otherwise specified.

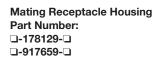
Dimensions are shown for reference purposes only. Specifications subject to change.

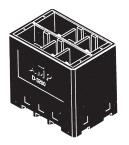
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

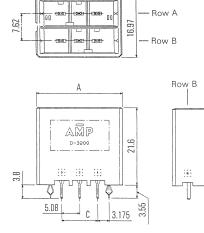
# D-3200M — Modular Type

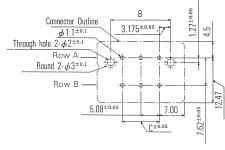


#### **Board-mounting Tab Header (Vertical Type)**



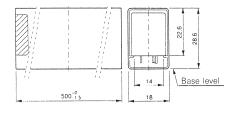






**PC Board Layout** Acceptable Board Thickness: 1.6-2.4±0.1

## Tube Package Dimensions (Ref.)



South America: 55-11-2103-6000

Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: 44-8706-080-208

 10
 □-917657-□
 34.32

 12
 □-917658-□
 39.4

Part Number

□-178140-□

Catalog 1242132 Revised 5-07

No. of

Pos.

6

Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions

В

16.51

26.67

31.75

Α

24.16

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

Row A

111

С

10.16

20.32

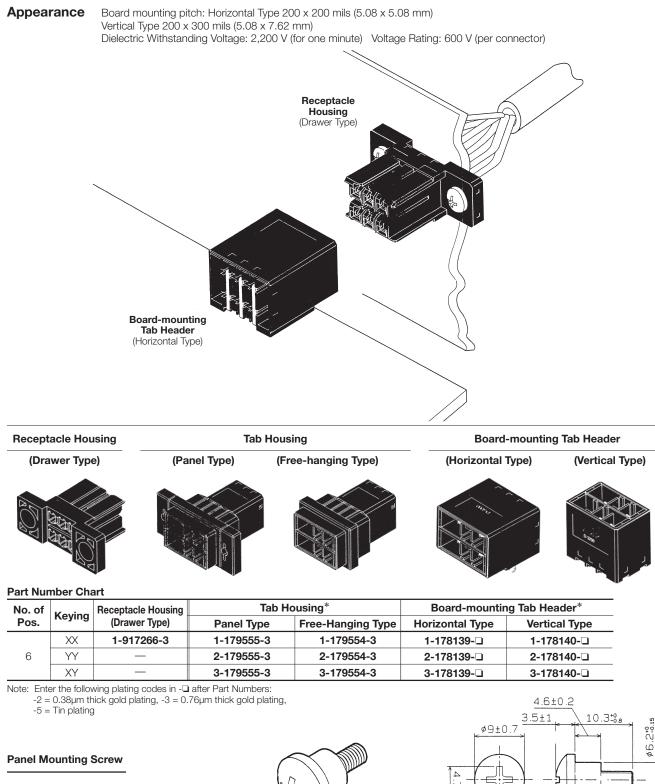
25.4

D-3000 Series

AMP Dynamic Series Connectors

## D-3000 Series (Continued)

#### D-3200M — Drawer Type





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D-3000 Series

Catalog 1242132 Revised 5-07

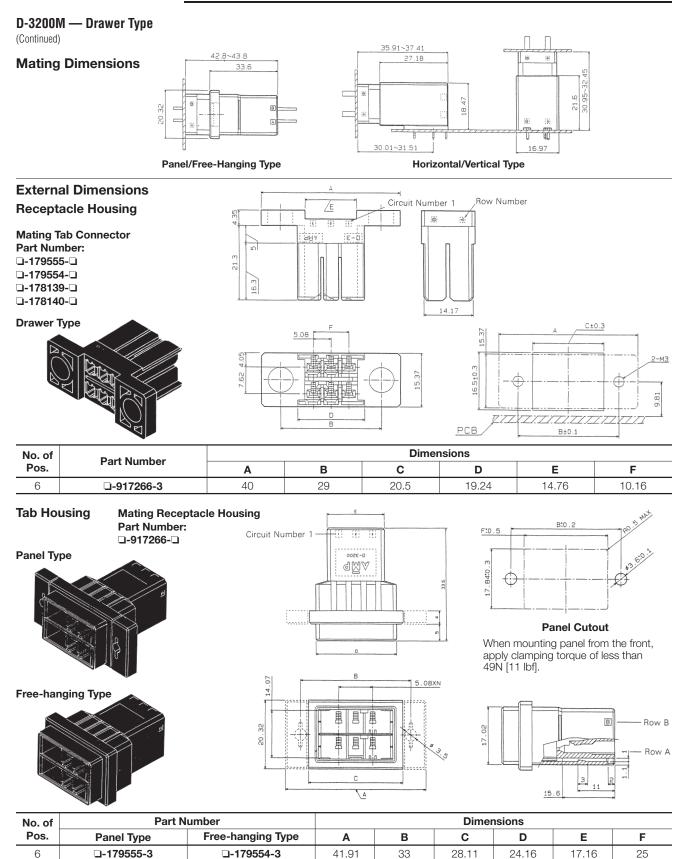
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Dimensions are in millimeters unless otherwise specified. Dimensions reference pu Specificatio to change.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

ΜЗ



Catalog 1242132 Revised 5-07

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Dimensions are in millimeters unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 67

D-3000 Series

Downloaded from Arrow.com.

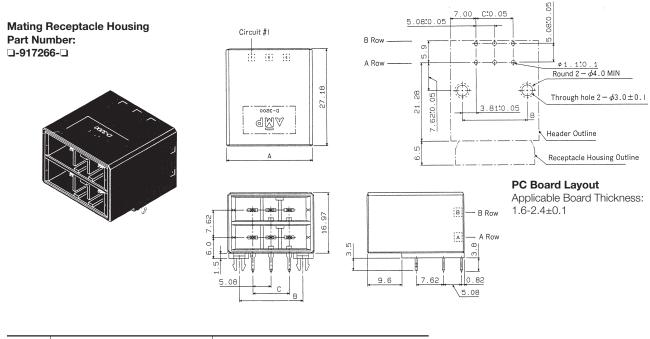


## D-3200M — Drawer Type

(Continued)

D-3000 Series

#### **Board-mounting Tab Header (Horizontal Type)**

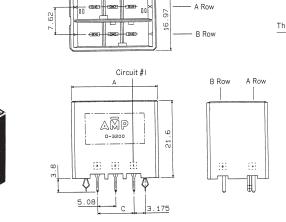


Pos. Part Number A B	•
	C
6 <b>Q-178139-Q</b> 24.16 17.78 1	0.16

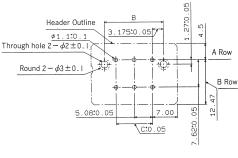
#### Board-mounting Tab Header (Vertical Type)

## Mating Receptacle Housing

Part Number: □-917266-□



to change.



PC Board Layout Applicable Board Thickness: 1.6-2.4±0.1

No. of	Part Number	Dimensions		
Pos.	Part Nulliber	Α	В	С
6	□-178140-□	24.16	16.51	10.16

Dimensions are in millimeters

unless otherwise specified.

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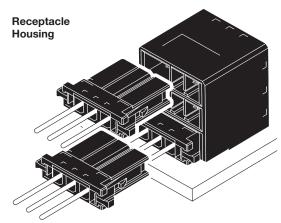
Catalog 1242132 Revised 5-07

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## D-3200T — 3-Row Type

**Appearance** 

Board-mounting pitch: Horizontal Type 200 x 200mils (5.08 x 5.08mm) Dielectric Withstanding Voltage: 2,200 V (for one minute) Voltage Rating: 600 V (per connector)



#### Part Number Chart

No. of	Keying	Board-mounting Tab Header
Pos.	Reying	Horizontal Type
	XXX	1-1123624-🗆
9	XXY	3-1123624-🗆
	YYX	4-1123624-🗆
	XYX	5-1123624-🗅

Note: Enter following plating codes in- after Part Numbers: -2 : 0.38µm thick gold plating

-5 : Tin plating

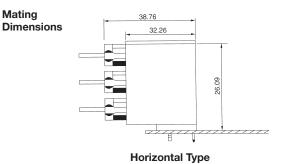
Mating Receptacle Housing

Part Number:

**U-178128-3** 

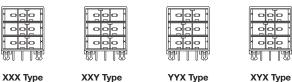
#### **Board-mount Tab Header (Horizontal Type)**

Circuit #1



#### Keying

This product (D-3200T) is provided with keying to help prevent mismating of the connector halves. Keying is available in four types-XXX Type, XXY Type, YYX Type and XYX Type. (Shown below is the mating surface of Tab Header.)



17.78

XXY Type

YYX Type

XYX Type

3.81<sup>±0.05</sup> Header Outlin 24.16 <u>9-ø1.1±0.1</u> 5.08<sup>±0.05</sup> 0.82 DIA1.1±0.1 9PLACES ji) 2 3 D/C Through hole 2-ø±0.1 5.08<sup>±0.05</sup> (£ D-3500 7.62<sup>±0.05</sup> Round 2-ø4MIN чмд 5.08<sup>±0.05</sup> 10.16<sup>±0.</sup> 17.16 7 10.16 24.16 5.08 PC Board Layout Applicable Board С -Row C Thickness: 1.6±0.1 d b В Row B ф А Row A - 1 5 0.82 3.8<sup>+0.6c</sup> 5.08 5.08 3.81 9.6

D-3000 Series

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Dimensions are in millimeters unless otherwise specified.

5.24

3.34

69

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

17.78

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

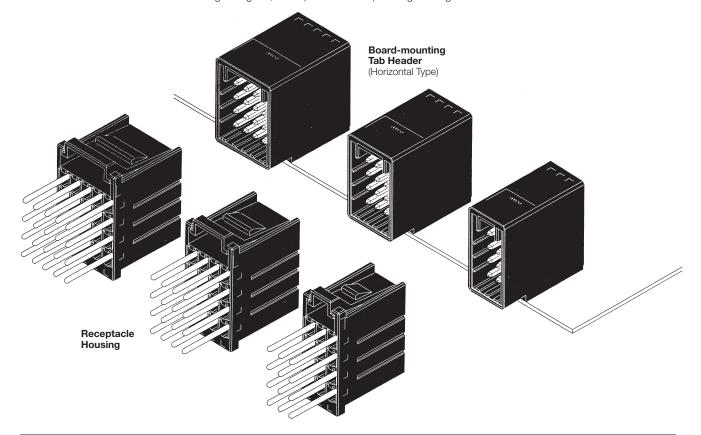
69

#### D-3400F — Skyscraper **Connectors**

**Appearance** 

D-3000 Series

Board-mounting width reduced through increased heights. Compatible with increased I/Os. Board-mounting pitch: Horizontal Type 150 x 150 mils (3.81 x 3.81 mm) Dielectric Withstanding Voltage: 1,500 V (for one minute) Voltage Rating: 250 V



**Receptacle Housing** 



**Board-mounting Tab Header** 

(Horizontal Type)

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926

C. America: 52-55-1106-0803

Dimensions are shown for reference purposes only. Specifications subject

to change.



Part Number Chart No. of **Board-mounting Tab Header Receptacle Housing** Pos. (Horizontal Type) 178214-1 178216-🗅 12 16 20 917249-1 917251-□

Dimensions are in millimeters

unless otherwise specified.

Note: Enter the following plating codes in -□ after Part Numbers: -2 = 0.38µm thick gold plating, -3 = 0.76µm thick gold plating,

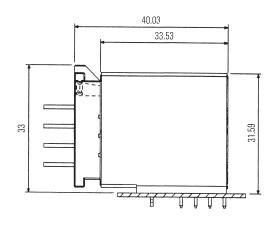
-5 = Tin plating

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<sup>70</sup> 

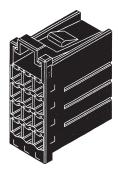
## D-3400F — Skyscraper Connectors (Continued)

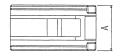
#### **Mating Dimensions**

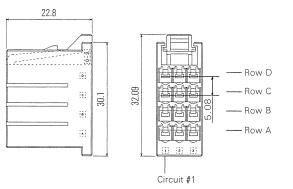


**Horizontal Type** 

#### **Receptacle Housing**







No. of	Part Number	Dimensions	Mating Tab Header	
Pos.	Fait Number	Α	Part Number	
12	178214-1	12.22	178216-□	
16		—	_	
20	917249-1	19.84	917251-□	

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Dimensions are in millimeters unless otherwise specified.

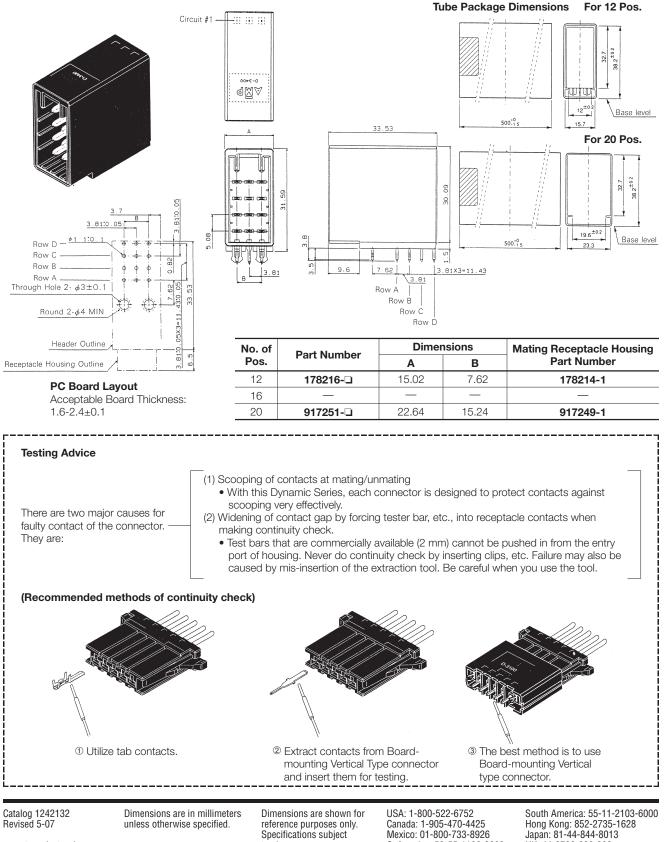
Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208

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# D-3400F — Skyscraper

**Connectors** (Continued)

## **Board-mounting Tab Header (Horizontal Type)**



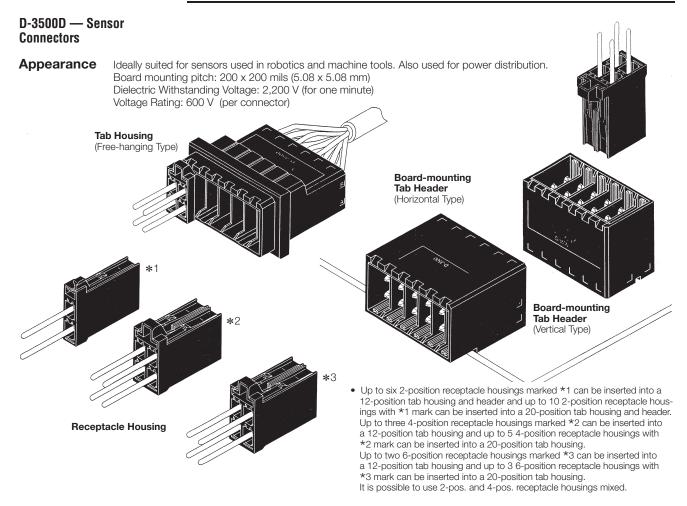
to change.

Mexico: 01-800-733-8926

C. America: 52-55-1106-0803

UK: 44-8706-080-208

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 Receptacle Housing
 Tab Housing
 Board-mounting Tab Header

 Image: Constraint of the state of

No. of	Receptacle	Tab Housing		L	Board-mounting Tab Header		
Pos.	Housing	Panel Type	Free-hanging Type	Fitting	Horizontal Type	Vertical Type	
2	175362-🗅	—	_	—	_	_	
4	175363-🗅	—	—	_	1376133-🗅	_	
6	1318095-🗅	—	—	—	—	_	
12	—	□-917241-6	□-917242-6	S	177555-🗅	316516-🗆	
20	—	□-917241-8	□-917242-8	S	175365-🗅	316517-🗆	

Note : In the after Part Numbers of PC board mount tab headers, please enter the following plating code numbers:

-2 = 0.38µm thick gold plating, -3 = 0.76µm thick gold plating,

-5 = Tin plating

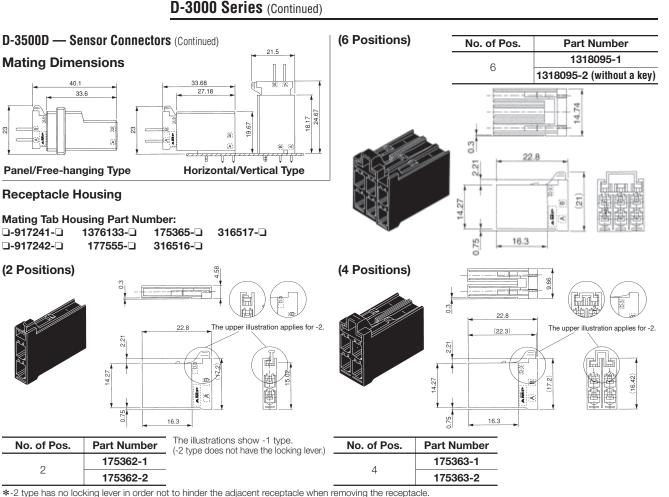
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2 Dimensions are in millimeters unless otherwise specified. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

The codes for the  $\hfill\square$  after receptacle housing part numbers and

before tab housing part numbers, please refer to the next page.

South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 73

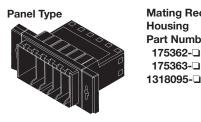


\*-2 type has no locking lever in order not to hinder the adjacent receptacle when removing the receptacle. When removing -2 type receptacle, please use a screwdriver.

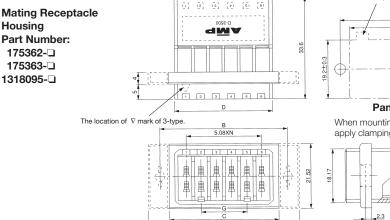
175362-🗆

175363-🗆

#### **Tab Housing**

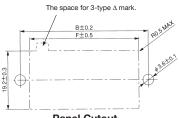


**Free-Hanging Type** 



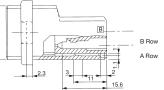
E<sup>+0.2</sup>

Circuit #1



#### Panel Cutout

When mounting panel from the front, apply clamping torque of less than 49N [11 lbf].



No. of	Part Number		Dimensions						
Pos.	Panel Type	Free-Hanging Type	Α	В	С	D	Е	F	G
10	917241-6	917242-6	- 52	43	36.43	32.48	32.48	33.4	15.24
12	3-917241-6	3-917242-6							
00	917241-8	917242-8	70	<u> </u>	E0.7E	52.8	52.8	53.8	35.56
20	3-917241-8	3-917242-8	72	63	56.75				

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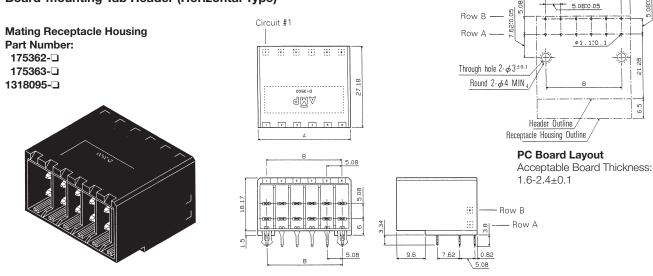
Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

D-3500D — Sensor Connectors (Continued)

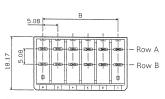
#### **Board-mounting Tab Header (Horizontal Type)**

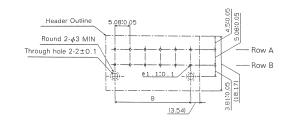


No. of	Part Number	Dimensions			
Pos.		Α	В		
4	1376133-🗅	12.16	5.08		
12	177555-🗅	32.48	25.4		
20	175365-🗅	52.8	45.72		

#### **Board-mounting Tab Header (Vertical Type)**

Mating Receptacle Housing Part Number:
175362-🗆
175363-🗆
1318095-🗆





PC Board Layout

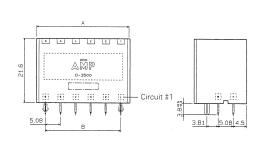
1.6-2.4±0.1

Acceptable Board Thickness:

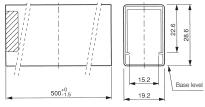
Part Number

316516-🗆

316517-🗅



**Tube Package Dimensions (Ref.)** 



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No. of

Pos.

12

20

Dimensions are in millimeters unless otherwise specified.

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions

Α

32.48

52.8

В

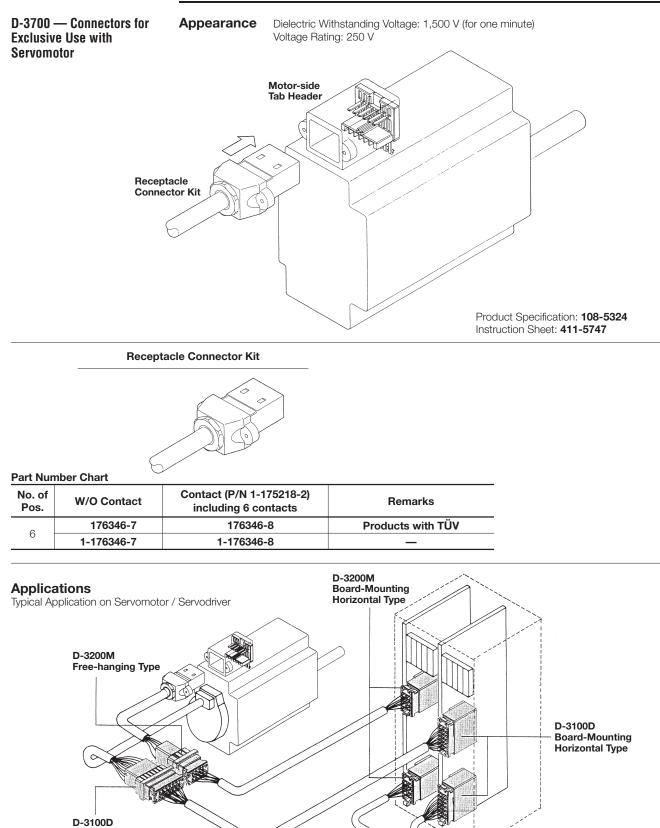
25.4

45.72

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-8706-080-208 75

D-3000 Series

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Dimensions are shown for

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to change.

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D-3000 Series

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Free-hanging Type

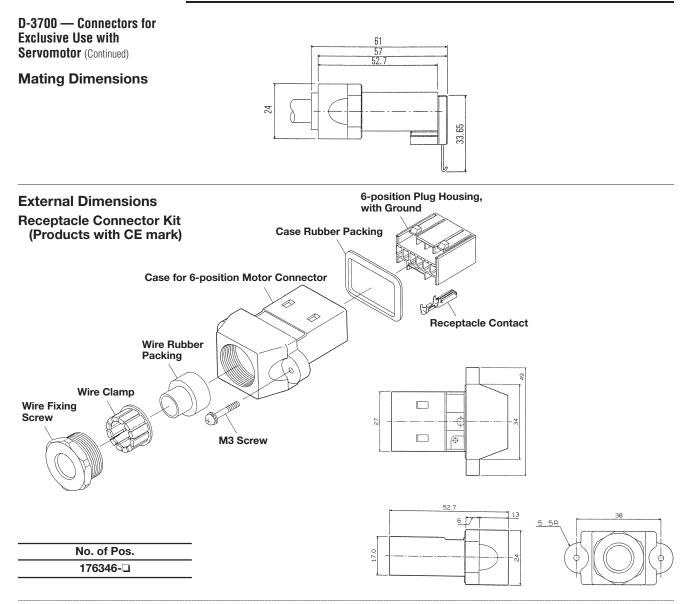
Dimensions are in millimeters

unless otherwise specified.

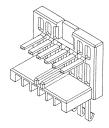
USA: 1-800-522-6752

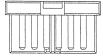
₹ Tyco Electronics

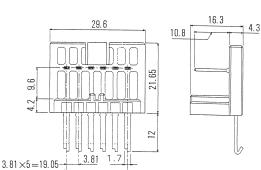
## D-3000 Series (Continued)



#### Motor-side Tab Header (Offered for limited usage)







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Dimensions are in millimeters unless otherwise specified.

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