

# HDRA series 0.8 mm Pitch Connectors

#### Outline

HDRA series connectors have been developed based on the HDR series products for high speed signal interfaces such as SCSI-III, VHDCI and PCI.

#### **Features**

- Conforms to the United States ANSI/SFF8441 standards
- Provided with high performance EMI/ESD-shielded structure
- Mounted with locks or screws
- Low profile
- Sequence structure

### Principal Applications

Server, Router, Notebook type personal computers and their peripheral equipment, and mobile equipment

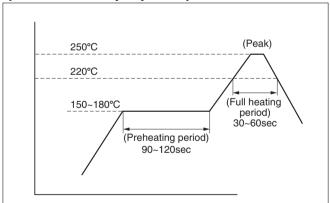
# **Electrical Characteristics**

Rated voltage	30V AC (r.m.s.)
Rated current	0.3 A
Insulation resistance	Over 500 megohms at 100V DC
Dielectric withstanding voltage	250V AC (r.m.s.)
Contact resistance	70 milliohms or less (for combination of MA or MA1 and LFDT) 100 milliohms or less (for combination with MA1 and W1LFDT)

#### **Document Disclaimer**

- When placing orders with us, minimum order quantities are set for every product.
- Be sure to contact us before starting preliminary design of PCBs using our connectors.
- The specifications and information shown in the catalog are subject to change without notice.

### Reflow temperature profile (for reference purposes)

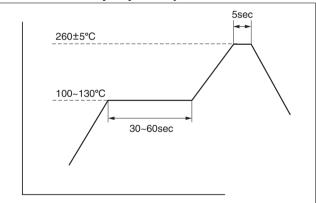


The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow temperature profile.

#### Applicable products

HDRA series SMT type for PCB

### Flow temperature profile (for reference purposes)



The flow temperature profile as shown above is for reference purposes. This profile depends on requirements such as the PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own flow temperature profile.

#### ● Applicable products

HDRA series through hole type for PCB

#### **Product List**



IDC type male connector for cable HDRA-E36MA+



IDC type male connector for cable HDRA-E68MA+



IDC type male connector for cable HDRA-E68M( )1+



IDC type male connector for cable HDRA-E100M( )1+



IDC type female connector for cable HDRA-E68FAG1+



Straddle SMT type male connector for PCB HDRA-E68MT+



Straight through hole type male connector for PCB HDRA-EC100MDT-( )+



Straight DIP type female connector for PCBs HDRA-EC68FDT-( )+



Straight DIP type female connector for PCBs HDRA-EC100FDT-( )+



Right-angle through hole type female connector for PCB HDRA-E68LFDT-OM18+



Right-angle through hole type female connector for PCB HDRA-E68LFD1T-( )+



Right-angle through hole type female connector for PCB HDRA-EC68LFDT( )-( )+



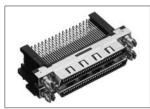
Right-angle through hole type female connector for PCB HDRA-EC100LFDT( )-( )+



Right-angle through hole type female connector for PCB HDRA-EA36LFDT-( )+



Right-angle through hole type female connector for PCB HDRA-E100LFDT( )-( )+



Right-angle through hole type female connector for PCB HDRA-E68W1LFDT-( )+



Right-angle through hole type female connector for PCB HDRA-E68W( )LFDT1EC-( )+



Right-angle through hole type female connector for PCB HDRA-E100W( )LFDT1EC-( )+



Straight SMT type female connector for PCB HDRA-E68FYT-( )+



Right-angle SMT type female connector for PCB HDRA-ED68LFZGT( )-( )+



Right-angle SMT type female connector for PCB HDRA-ED136LFZGT( )-( )+



EMI-shielded vertical plastic housing for standard cable HDRA-E68LGKP( )



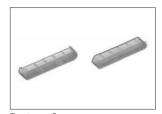
EMI-filtered vertical metallic housing HDRA-E100LPA



EMI-filtered vertical metallic housing HDRA-E100LPW( )



EMI-shielded vertical plastic housing HDRA-E36LPTH



Dust-proof cap HDRA-E68( )-CP

### IDC type male connector for cable HDRA-E36MA+

For cable

IDC

(RoHS)

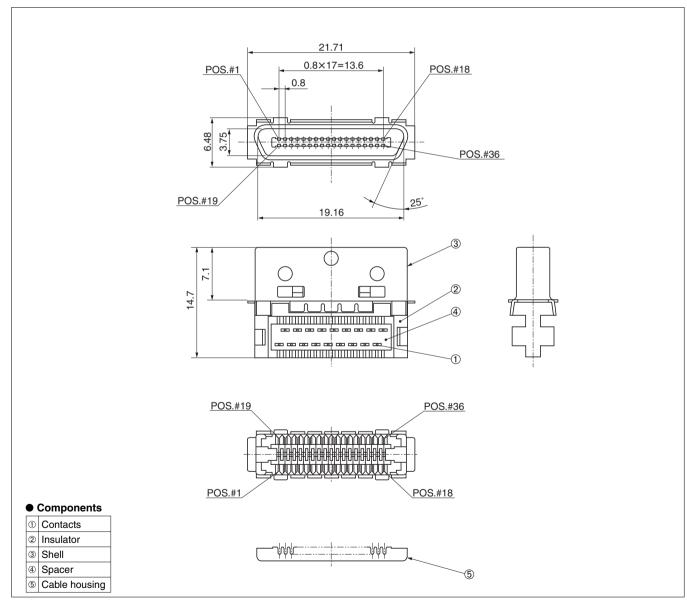
ANSI/SFF8441



#### Configuration of product Part No.

#### **HDRA-E36MA+**

- 1 ① Series name
- 2 No. of contacts: 36
- 3 Type of contact
  - M: IDC type, male
- Compatible cable
  - A: AWG#30(7/0.1), dia. 0.58 mm



Mating connector: HDRA series right-angle through hole type or straddle SMT type female connector

For use with housings: HDRA series upright housing, HDRA-E36LPTH

## IDC type male connector for cable HDRA-E68MA+

For cable

**IDC** 

ANSI/SFF8441

(RoHS)

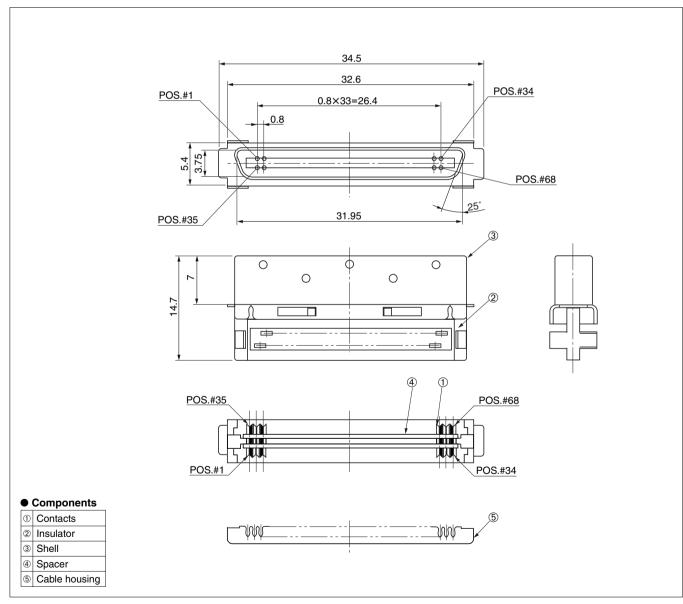


#### ● Configuration of product Part No.

#### **HDRA-E 68 MA+**

① ② ③

- ① Series name
- @ No. of contacts: 68
- ③ Type of contact M: IDC type, male
- Compatible cable
  - A: AWG#30 (7/0.1), dia. 0.58 mm



Mating connector: HDRA series right-angle through hole type or straddle SMT type female connector

For use with housings: HDRA series upright housing, HDRA-E68LGKPA

#### 0.8mm pitch connector

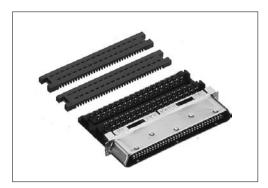
### IDC type male connector for cable HDRA-E68M()1+

For cable

IDC

(RoHS)

ANSI/SFF8441



#### Configuration of product Part No.

### HDRA-E 68 M ( ) 1+

1 ① Series name

**⑤ IDC method** 

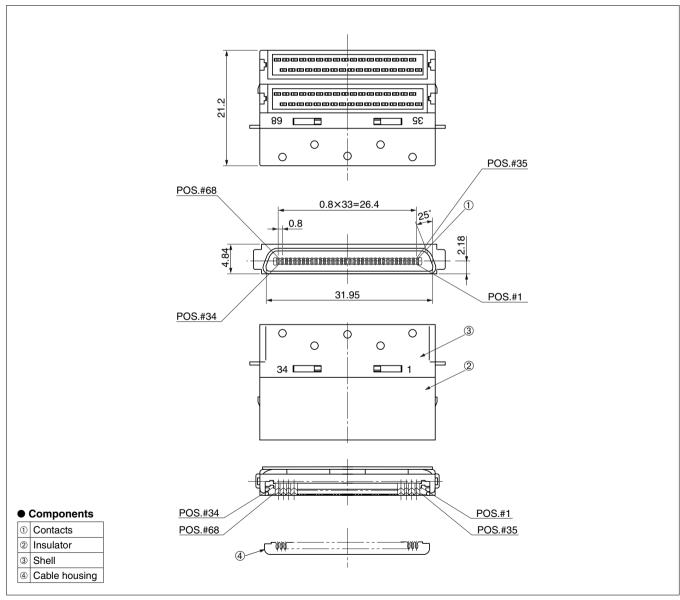
2 No. of contacts: 68

1: One side IDC

3 Type of contact M: IDC type, male

Compatible cable

Blank: AWG#30 (1/0.254), dia. 0.58 mm : AWG#30 (7/0.1), dia. 0.58 mm Α С : AWG#34 (7/0.064), dia. 0.44 mm



Mating connector: HDRA series right-angle through hole type or straddle SMT type female connector

For use with housings: HDRA series vertical housing, HDRA-E68LGKP ( )

Required tool: Termination tool: FHAT-0027, IDC tool: FLPT-0021A, Hand presser: RPS-K4 (Refer to page Tool-10)

# IDC type male connector for cable $HDRA-E100M(\ )1+$

For cable

IDC

**ANSI/SFF8441** 

RoHS

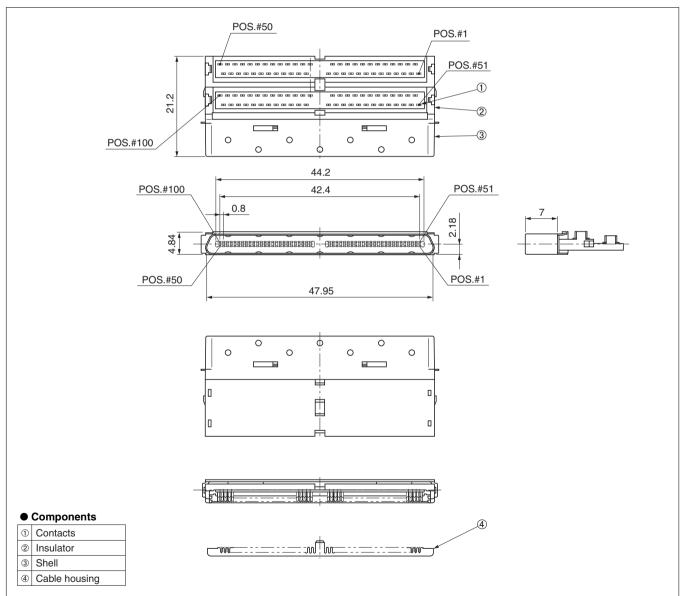


#### Configuration of product Part No.

### $\underline{\underline{HDRA}}$ - $\underline{\underline{F}}$ $\underline{\underline{HDRA}}$ $\underline{\underline{H$

- ① Series name
- 2 No. of contacts: 100
- ③ Type of contact M: IDC type, male

Blank: AWG#30 (1/0.254), dia. 0.58 mm A : AWG#30 (7/0.1), dia. 0.58 mm



Mating connector: HDRA series right-angle through hole type female connector

For use with housings : HDRA series vertical housing, HDRA-E100LPA, HDRA-E100LPW()

Required tool: Termination tool: FHAT-0038A, IDC tool: FLPT-0021A, Hand presser: RPS-K4 (Refer to page Tool-10)

#### 0.8 mm pitch connector

## IDC type female connector for cable HDRA-E68FAG1+

For cable

IDC

RoHS

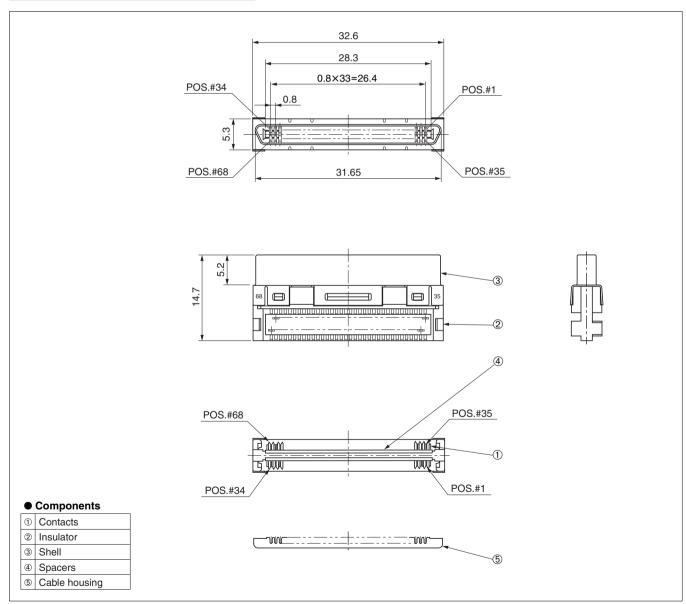
**ANSI/SFF8441** 



#### Configuration of product Part No.

#### HDRA- E 68 F A G1+

- ① ② ③ ④ ⑤
  ① Series name
- ② No. of contacts: 68
- ③ Type of contact F: IDC type, female
- Compatible cable
- A: AWG#30 (7/0.1), dia. 0.58 mm
- ⑤ Contact plating
  - G1: 0.76 µm or more Gold plate



Mating connector: HDRA series right-angle through hole type or straddle SMT type male connector

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## Straddle SMT type male connector for PCB HDRA-E68MT+

For PCB

Straddle SMT

ANSI/SFF8441

(RoHS)



#### Configuration of product Part No.

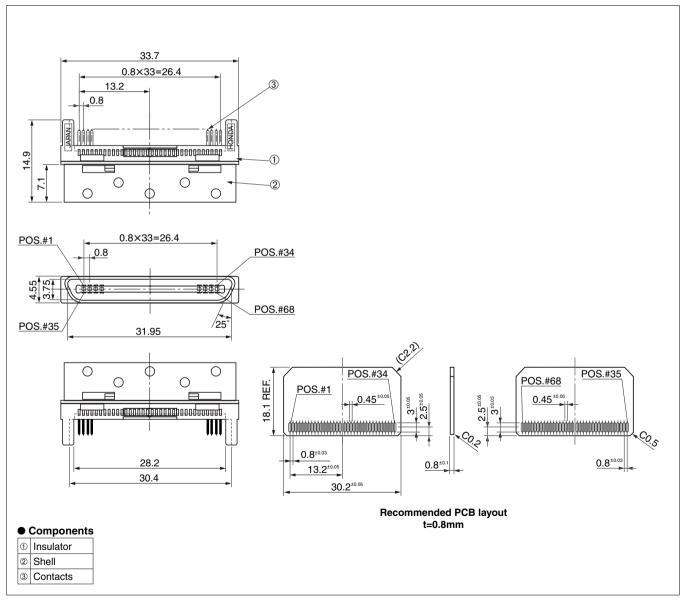
#### **HDRA- E 68 MT+**

① Series name

1

- 2 No. of contacts: 68
- 3 Type of contact

MT: Straddle SMT type, male



Mating connector: HDRA series through hole type or straddle SMT type female connector

0.8mm pitch connector

# Straight through hole type male connector for PCB HDRA-EC100MDT-( )+

For PCB

**Straight Through hole** 

RoHS

**EMI shielded** 



Configuration of product Part No.

### <u>HDRA-</u> EC <u>100</u> <u>MD</u> <u>T-</u> ( )+

① Series name ⑤

© Presence of guide metal fittings

② No. of contacts: 100

3 Type of contact

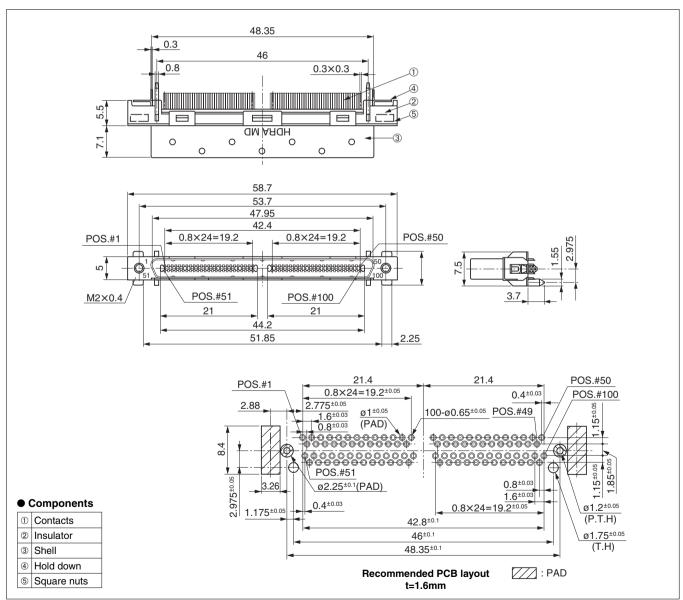
MD: Straight through hole type, male

With ground contact

Blank: None

GP: Provided with guide hardware.

(The guide pin is required for the mating connector.)



Mating connector: HDR series female connector

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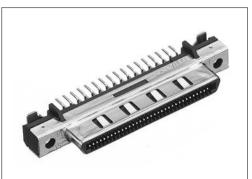
# Straight DIP type female connector for PCBs HDRA-EC68FDT-( )+

For PCBs

Straight DIP

(RoHS)

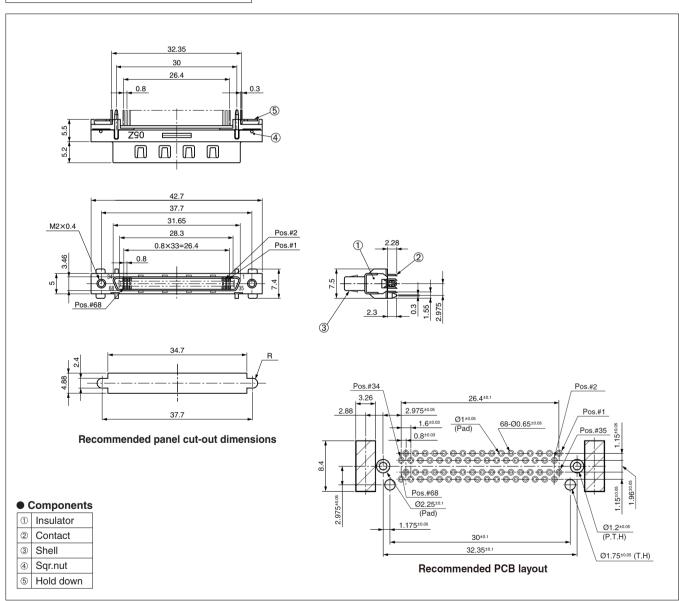
**EMI-filtered countermeasures** 



### 

- ① Series name
- 2 No. of contacts: 68
- ③ Form of contact
  - FD: Straight, DIP type, female
- 4 With ground lock pin
- ⑤ Lock screw

SLD: Provided Blank: None



Mating connector: HDRA series male connectors

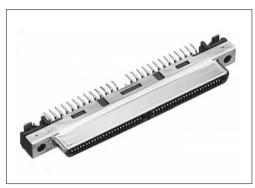
# Straight DIP type female connector for PCBs HDRA-EC100FDT-( )+

For PCBs

Straight DIP

RoHS

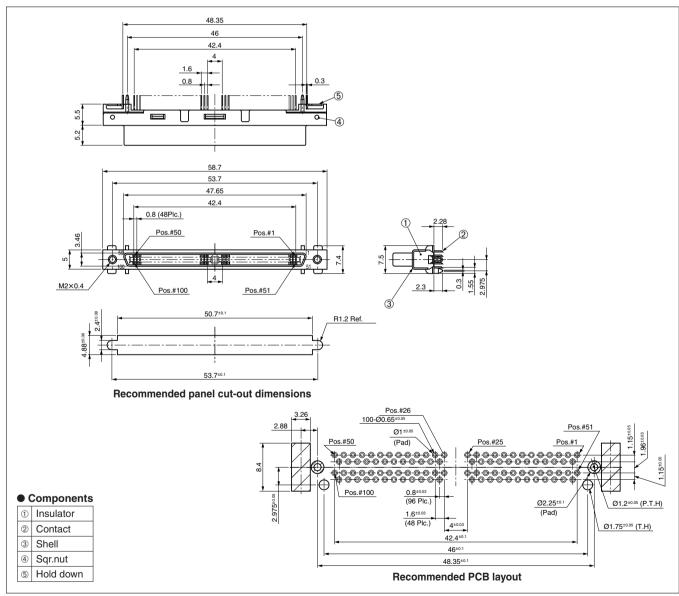
**EMI-filtered countermeasures** 



### • Configuration of product Part No. HDRA- EC 100 FD T- ( )+

- ① Series name
- ② No. of contacts: 100
- 3 Form of contact
  - FD: Straight, DIP type, female
- With ground lock pin
- ⑤ Lock screw

SLD: Provided Blank: None



Mating connector: HDRA series, male connector

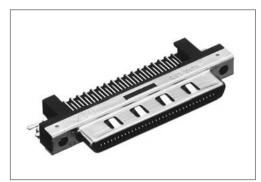
### Right-angle through hole type female connector for PCB HDRA-E68LFDT-OM18+

**For PCB** 

**Right-angle Through hole** 

RoHS

**ANSI/SFF8441** 



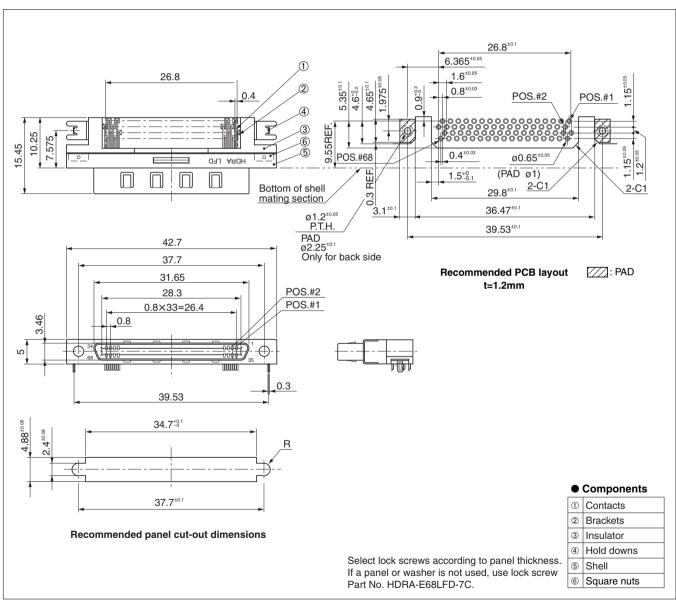
#### Configuration of product Part No.

#### HDRA- E 68 LFD T- 0M18+

① Series name

1

- 2 No. of contacts: 68
- ③ Type of contact
  - LFD: Right-angle through hole type, female
- With hold downs
- ⑤ Distance between center of mating section and mounting surface (mm)



Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

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HDRA-E68LFD1T-()+

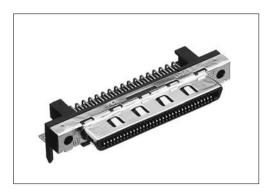
#### 0.8mm pitch connector

#### For PCB

#### **Right-angle Through hole**

ANSI/SFF8441

(RoHS)



Configuration of product Part No.

HDRA-E 68 LFD 1 T -( )+ 1

1 Series name

Right-angle through hole type female connector for PCB

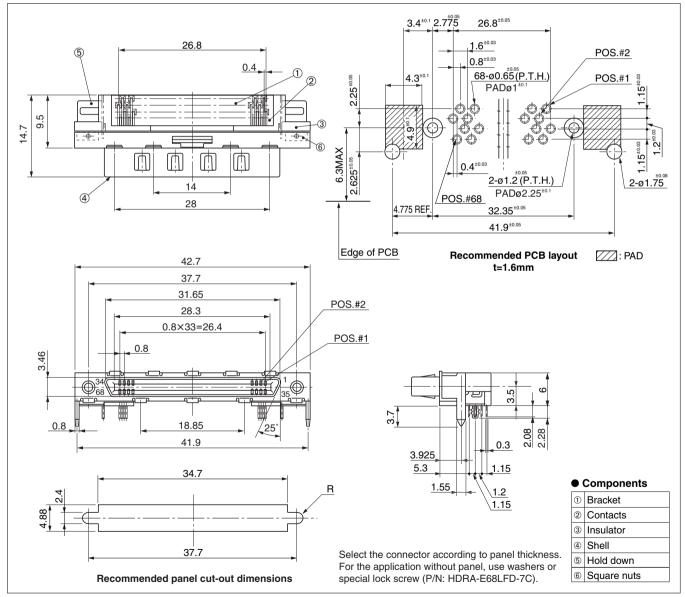
- 2 No. of contacts: 68
- 3 Type of contact:

LFD: Right-angle through hole type, female

- Provided with shell and panel contact blade
- ⑤ Provided with board lock pin

6 Lock screw Blank: None SL: Provided

(Thickness of panel: 1.12mm)



Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

#### 0.8 mm pitch connector

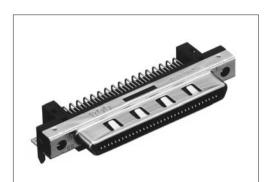
# Right-angle through hole type female connector for PCB HDRA-EC68LFDT( )-( )+

For PCB

**Right-angle Through hole** 

ANSI/SFF8441

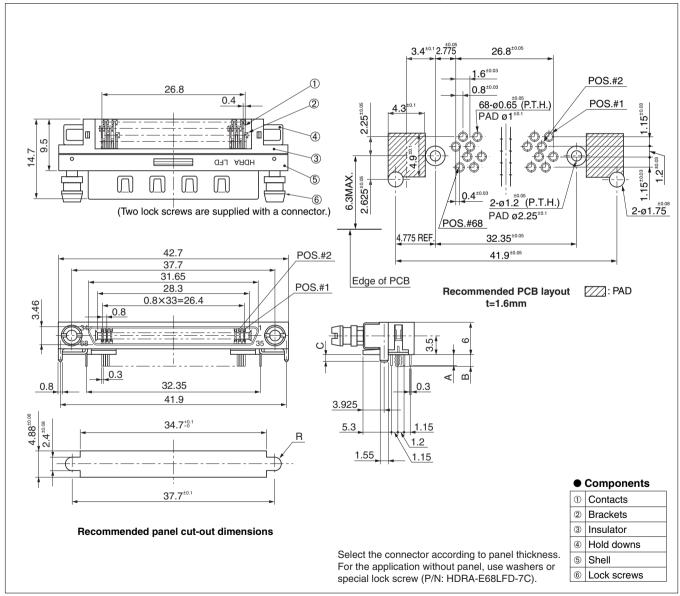




Configuration of product Part No.

### $\underbrace{\text{HDRA- EC}}_{\scriptsize \textcircled{1}} \underbrace{\text{68}}_{\scriptsize \textcircled{2}} \underbrace{\text{LFD}}_{\scriptsize \textcircled{3}} \underbrace{\text{T}}_{\scriptsize \textcircled{4}} \underbrace{\text{()}}_{\scriptsize \textcircled{5}} - \underbrace{\text{()}}_{\scriptsize \textcircled{6}} +$

- ① Series name
- 2 No. of contacts: 68
- 3 Type of contact
  - LFD: Right-angle through hole type, female
- With board lock pin
- (5) Length of contact, board lock pins or location peg
  - Blank: A-2.08 mm contacts
    - : B-2.28 mm board lock pins
    - : C-3.7 mm location peg
- S: A-2.08 mm contacts B-2.28 mm board lock pins C-2.3 mm location peg
- 2 : A-2.08 mm contacts
  - B-2.28 mm board lock pins C-1.4 mm location peg
- © Lock screws
  - Blank: None
  - SL : provided (Thickness of panel: 1.12 mm)



Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

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#### 0.8mm pitch connector

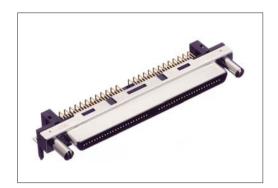
# Right-angle through hole type female connector for PCB HDRA-EC100LFDT( )-( )+

**For PCB** 

**Right-angle Through hole** 

(RoHS)

**EMI shielded** 



Configuration of product Part No.

### HDRA- EC 100 LFD T ( )- ( )+

① ② ③ ④ ⑤ ⑥
① Series name ⑥ Lock screw
② No. of contacts: 100 Blank: None
③ Type of contact SL : Provided

With ground contactThrough hole length

Blank: 2.08 mm 1 : 3.4 mm (under planning)

LFD: Right-angle through hole type, female GP: Guide pin

With ground contact

POS.#1 POS.#51 Edge of PCB  $2.625^{\pm0}$ 48 35±0. 4.78±0 57 9±0.1 **Recommended PCB layout** Z: PAD t=1.6mm 53.7 47.65 44.3 42.4 0.8×24=19.2 0.8×24=19.2 POS.#50 POS.#1 M2×0.4 POS.#51 POS.#100  $0.3 \times 0.3$ 0.8 48.35 57.9 Components ① Bracket ② Contacts ③ Insulator Select the connector according to panel thickness. 4 Shell For the application without panel, use washers or ⑤ Hold downs special lock screw (P/N: HDRA-E68LFD-7C).

Mating connector: HDRA series male connector

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# Right-angle through hole type female connector for PCB HDRA-EA36LFDT-( )+

**For PCB** 

**Right-angle Through hole** 

HS) ANSI/SFF8441





● Configuration of product Part No.

 $\underline{\underline{HDRA}}$ -  $\underline{\underline{FD}}$   $\underline{\underline{T}}$ - $\underline{\underbrace{C}}$ +

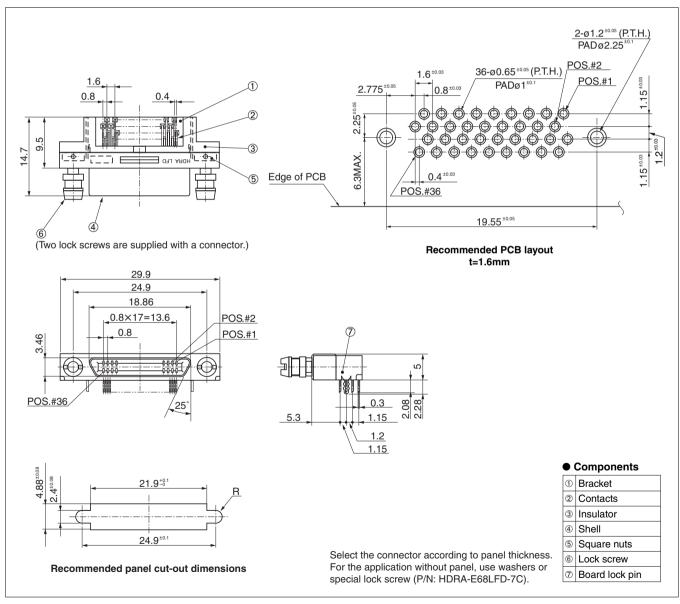
- ① Series name
- 2 No. of contacts: 36
- 3 Type of contact

LFD: Right-angle through hole type, female

- Provided with board lock mechanism
- ⑤ Lock screw

Blank: None

SL : Provided (Thickness of panel: 1.12 mm)



Mating connector: HDRA series IDC type male cable connector

Note● Jack screw is not available at present.

#### 0.8 mm pitch connector

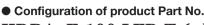
#### For PCB

**Right-angle Through hole** 

**ANSI/SFF8441** 

# Right-angle through hole type female connector for PCB HDRA-E100LFDT( )-( )+

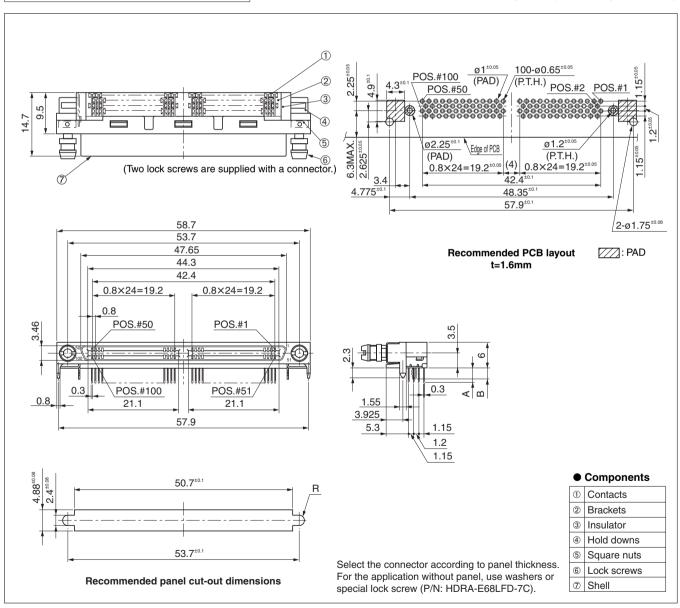






- <u>HDRA-</u> E <u>100</u> <u>LFD</u> <u>T</u> ( )- ( )-
- ① ② ③ ④ ⑤ ⑥
  ① Series name ⑤ Length 0
- 2 No. of contacts: 1003 Type of contact
  - LFD: Right-angle
- through hole type, female
- With board lock pin
- (5) Length of contacts and board lock pins Blank: A-2.08 mm contacts
  - B-2.28 mm board lock pins
  - 1 : A-3.4 mm contacts
- B-2.6 mm board lock pins © Lock screws
- Blank: None

SL : provided (Thickness of panel: 1.12 mm)



Mating connector: HDRA series IDC type male connector

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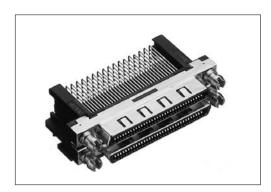
# Right-angle through hole type female connector for PCB HDRA-E68W1LFDT-( )+

**For PCB** 

**Right-angle Through hole** 

(RoHS)

ANSI/SFF8441



#### Configuration of product Part No.

### <u>HDRA- E 68 W 1 LFD T-()+</u>

① Series name

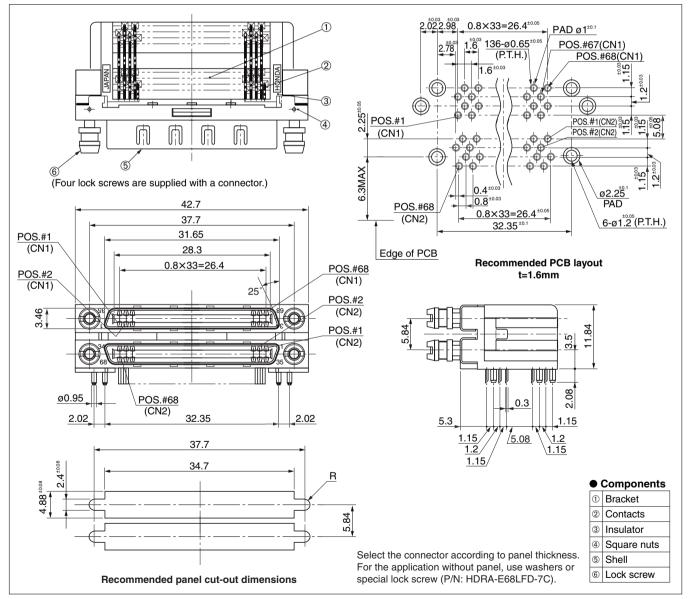
- 2 No. of contacts: 136 (68×2)
- 3 No. of stacks: 2
- Type of contact

LFD: Right-angle through hole type, female

- With location peg
- 6 Lock screw

Blank: None

SL : Provided (Thickness of panel: 1.12 mm)



Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

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#### 0.8mm pitch connector

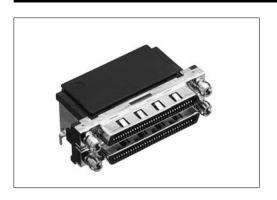
## Right-angle through hole type female connector for PCB HDRA-E68W( )LFDT1EC-( )+

**For PCB** 

**Right-angle Through hole** 

ANSI/SFF8441

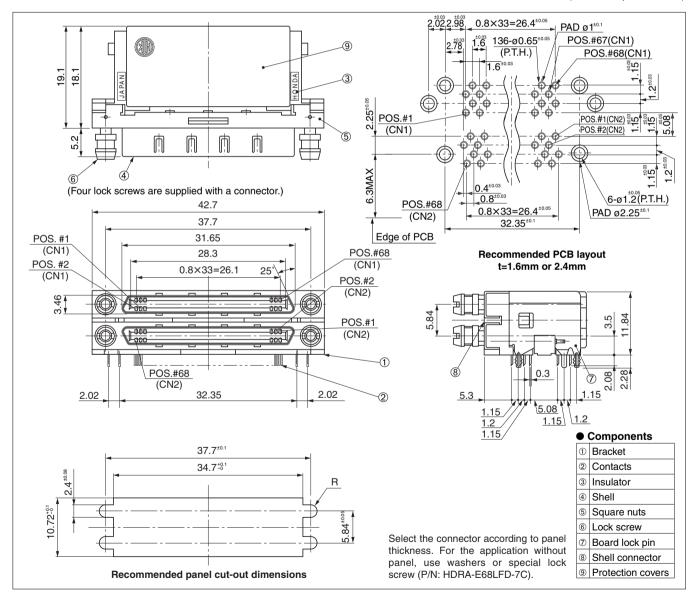




Configuration of product Part No.

### $\underbrace{HDRA}_{\textcircled{\tiny 1}} = \underbrace{68}_{\textcircled{\tiny 2}} \underbrace{W}_{\textcircled{\tiny 3}} \underbrace{()}_{\textcircled{\tiny 4}} \underbrace{LFD}_{\textcircled{\tiny 5}} \underbrace{T1}_{\textcircled{\tiny 6}} \underbrace{E}_{\textcircled{\tiny 7}} \underbrace{C}_{\textcircled{\tiny 9}} +$

- ① Series name
- 2 No. of contacts: 136 (68×2)
- 3 No. of stacks: 2
- 4 Length of contact, through hole1: 2.08 (PCB: 1.6 mm thick)
- 2: 3.4 (PCB: 2.4 mm thick)
- **5** Type of contact
  - LFD: Right-angle through hole type, female
- © Earth lock pin (provided with board lock mechanism)
- Provided with shell connection reinforcement
- ® Provided with protection cover for contacts and bends
- - Blank: None
  - SL : Provided (Thickness of panel: 1.12 mm)



Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

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### Right-angle through hole type female connector for PCB HDRA-E100W( )LFDT1EC-( )+

For PCB

**Right-angle Through hole** 

**ANSI/SFF8441** 

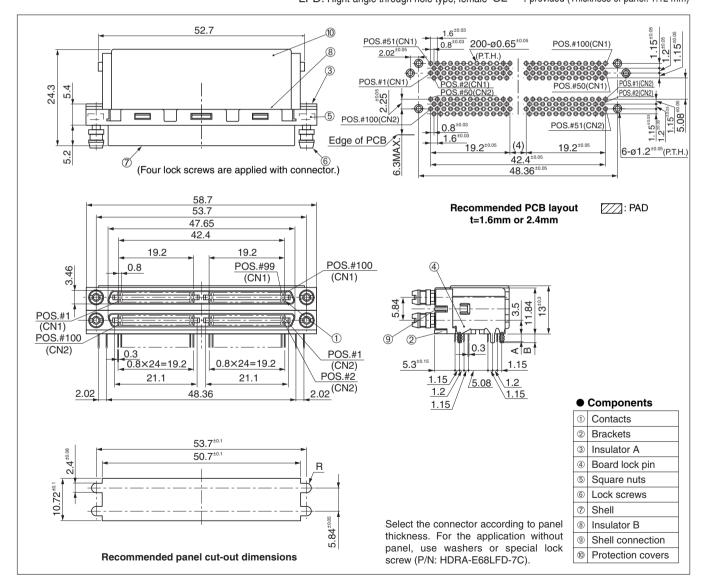




Configuration of product Part No.

#### (1)

- ① Series name
- 2 No. of contacts: 100
- 3 W: Double stacked connector
- 4 Length of contacts or board lock pins Provided with shell connection
  - 1: A-2.08 mm contacts B-2.28 board lock pins
  - 2: A-3.4 mm contacts
  - B-3.6 mm board lock pins
- **⑤** Type of contact
  - LFD: Right-angle through hole type, female SL
- ® Earth lock pin (provided with board lock mechanism)
- reinforcement
- ® Provided with protection cover for contacts and bends
- Lock screws Blank: None
  - : provided (Thickness of panel: 1.12 mm)



Mating connector: HDRA series IDC type male connector

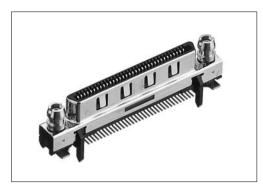
# Straight SMT type female connector for PCB HDRA-E68FYT-( )+

For PCB

**Straight SMT** 

(RoHS)

ANSI/SFF8441



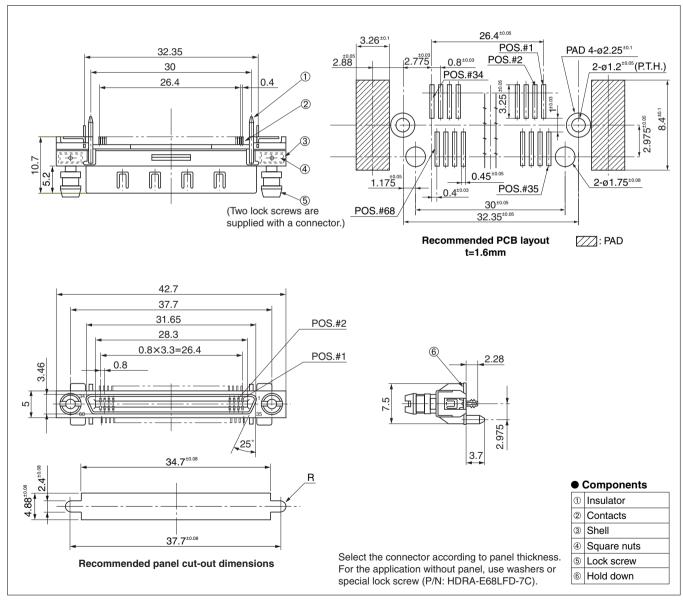
### • Configuration of product Part No. HDRA-E 68 FY T-()+

① ② ③ ④ ⑤

- ① Series name
- 2 No. of contacts: 68
- ③ Type of contact FY: Straight SMT type, female
- Provided with board lock mechanism

© Lock screw Blank: None SL : Provided

(Thickness of panel: 1.12 mm)



Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

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#### 0.8 mm pitch connector

### Right-angle SMT type female connector for PCB HDRA-ED68LFZGT()-()+

For PCB

**Right-angle SMT** 

(RoHS)

ANSI/SFF8441



Configuration of product Part No.

#### HDRA- ED 68 LFZ G T ( )-(1) (4) (5)

① Series name

2 No. of contacts: 68

3 Type of contact LFZ: Right-angle, female

Contact plating

G: 0.76 µm Gold plate

(5) Ground lock pins with hold downs

6 Form of shell Blank: Standard shell

: Shell with flange for EMI

⑦ Lock screws L: Provided

(3)(4) 85 4.225 16.05 2-ø2.45<sup>±0.1</sup>(PAD) 2.975 HDRA LFD 2-ø1.75<sup>+0.1</sup>(P.T.H.  $\mathbb{D}^{+}\mathbb{D}^{-}$ POS.#1  $\square$  $\square$ POS.#68 POS.#2 (Two lock screws are supplied with a connector.) 42.7 37.7 31.65 2-ø1.95+0.15 0.8<sup>±0.0</sup> 28.3 0.8×33=26.4±0. Edge of PCB 0.8×33=26.4 POS.#2 27.15 8.0 POS.#1 29.375 30.625±0 34.15 34.525<sup>±0.05</sup> POS.#68 **Recommended PCB layout** ///: PAD 32.35 85 3.925 t=1.6mm ςi 34.7 - 8.1 2.4 ±0.08 ₩8 0.8×33=26.4  $37.7^{\pm0.1}$ Recommended panel cut-out dimensions HDRA-ED68FYG+ aN Taping packages are available for automatically mounting board connectors on a PCB. The product part number of the taping package is HDRA-ED68FYG-TP1+. One reel provides 1000 board connectors. Flange for EMI The reel diameter is 380 mm. The tape width is 56 mm. Mounting Method of Right-angle SMT type Female Connector for PCB Main body (HDRA-ED68LFZGT-L+) HDRA-ED68LFZGTA+ SMT Bord connector Components (HDRA-ED68FYG+ Contacts ⑤ Shell Select the connector according to PCB Insulator A Lock screws panel thickness. For the application without panel, use washers or special After board connectors are mounted on a PCB, mate them with 3 Insulator B Hold downs lock screw (P/N: HDRA-E68LFD-7C). the main body, and solder hold downs and ground lock pins. ④ Insulator C

Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

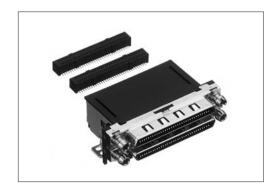
# Right-angle SMT type female connector for PCB HDRA-ED136LFZGT( )-( )+

**For PCB** 

**Right-angle SMT** 

(RoHS)

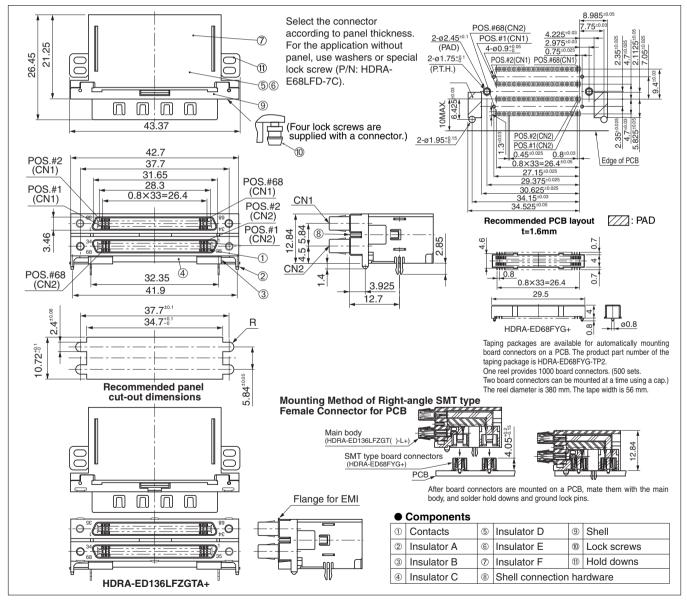
**ANSI/SFF8441** 



Configuration of product Part No.

### $\underbrace{\text{HDRA- ED}}_{\textcircled{\tiny{0}}} \underbrace{\text{136}}_{\textcircled{\tiny{2}}} \underbrace{\text{LFZ}}_{\textcircled{\tiny{3}}} \underbrace{\text{G}}_{\textcircled{\tiny{6}}} \underbrace{\text{T}}_{\textcircled{\tiny{6}}} \underbrace{\textbf{()}}_{\textcircled{\tiny{7}}} - \underbrace{\textbf{()}}_{\textcircled{\tiny{7}}} +$

- ① Series name
- 2 No. of contacts: 136
- 3 Type of contact
  - LFZ: Right-angle SMT type, female
- - G: 0.76 µm Gold plate
- **5** Ground lock pins with hold downs
- 6 Form of shell
  - Blank: Standard shell
  - A: Shell with flange for EMI
- ⑦ Lock screws
  - L: Provided
    - (Panel thickness: t = 1.12 mm or less)



Mating connector: HDRA series IDC type male cable connector, or straddle SMT type male connector

# EMI-shielded vertical plastic housing for standard cable HDRA-E68LGKP()

**Vertical housing** 

**EMI** shielded

(RoHS)

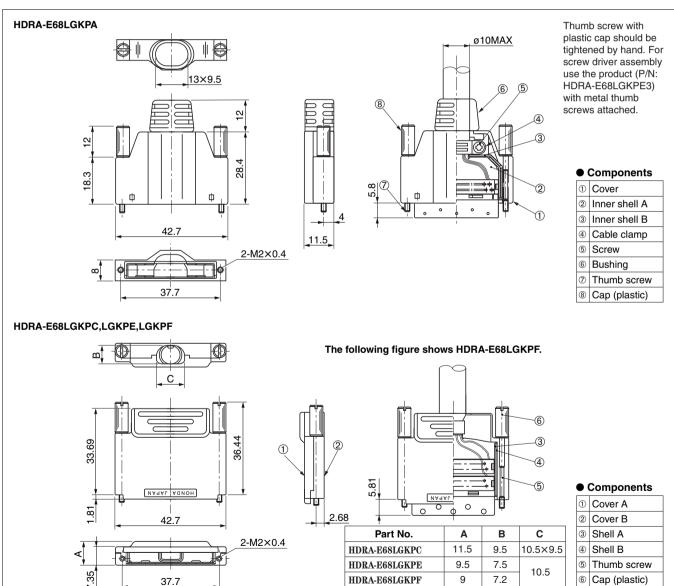
ANSI/SFF8441



### ● Configuration of product Part No.

 $\underline{\underline{HDRA}}$ -  $\underline{\underline{E}}$   $\underline{\underline{68}}$   $\underline{\underline{LGKP}}$   $\underline{\underline{()}}$ 

- ① Series name
- 2 No. of contacts: 68
- 3 A: Vertical cable holding type
  - C: Vertical ultrasonic welding type
  - E: Vertical ultrasonic welding type
  - F: Vertical ultrasonic welding type
- Outside diameter of cable is shown in the dimension table.



For use with connectors: HDR series IDC type cable connector: -LGKPA for MA, -LGKPC/-LGKPE for MA1, and -LGKPF for MC1

Required tools (for LGKPC, LGKPE and LGKPF): Clamp caulking tools: FLPT-0017B (Refer to page Tool-10)

Ultrasonic welder, Housing holding jig, Sonic welder

# EMI-filtered vertical metallic housing HDRA-E100LPA

Housing

Vertical

RoHS

**EMI filtered** 

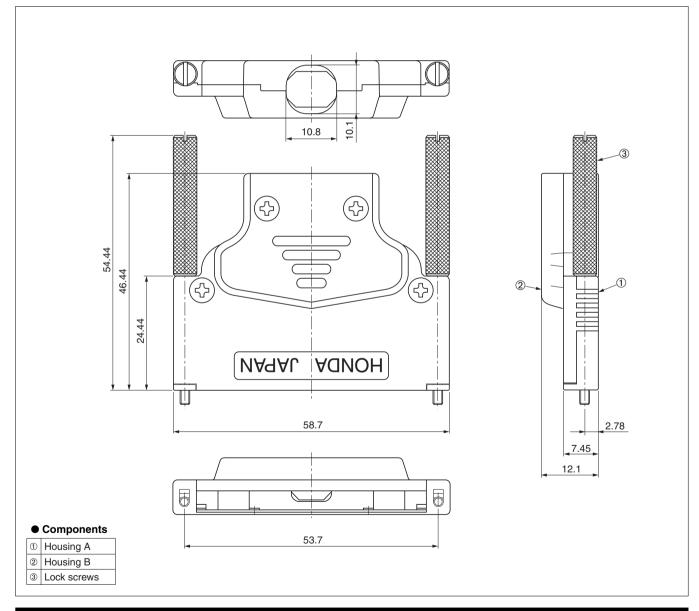


Configuration of product Part No.

#### HDRA-E 100 LP A

① ②

- ① Series name
- 2 No. of contacts: 100
- 3 Type of housing: Vertical type
- - A: Outside diameter of cable is 9.8 mm



For use with connectors: HDRA-E100M( )1+

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# EMI-filtered vertical metallic housing HDRA-E100LPW( )

Housing

Vertical

(RoHS)

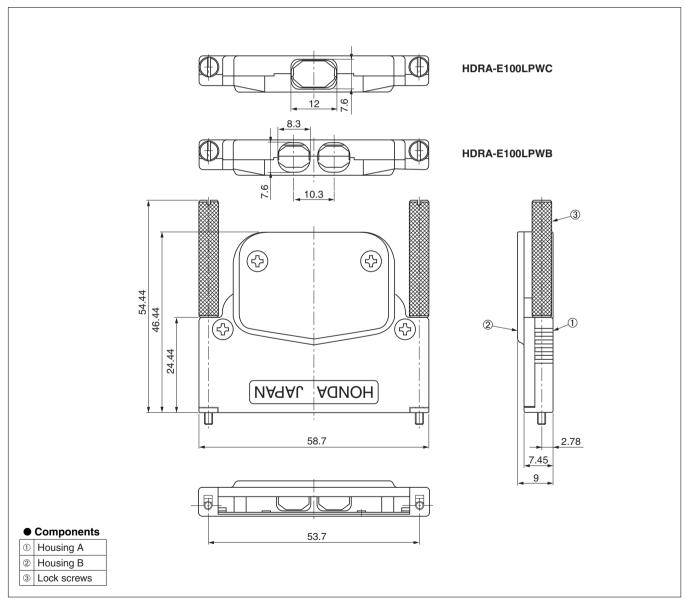
**EMI filtered** 



Configuration of product Part No.

#### 

- ① Series name
- 2 No. of contacts: 100
- ③ Type of housing: Vertical type
- (4) Compatible cable and form of through hole
  - B: Two holes are available for two cables. Outside diameters of cable are 6.9 mm
  - C: One hole is available for one cable. Outside diameter of cable is 9.6 mm



For use with connectors: HDRA-E100M( )1+

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### EMI-shielded vertical plastic housing HDRA-E36LPTH

**Vertical housing** 

**EMI shielded** 

(RoHS)

ANSI/SFF8441



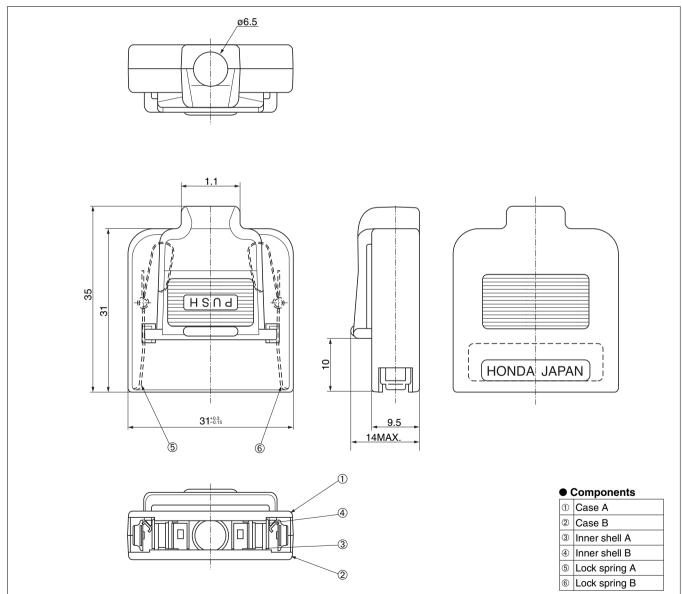
#### ● Configuration of product Part No.

#### HDRA-E 36 LPTH

① Series name

2 No. of contacts: 36

3 Type of housing: Vertical type



For use with connectors: HDRA-E36M()+

Mating connectors: HDRA -EA36LFDT+ + Lock screw (HDR-E14LMY-SL-02C) panel:0.5-0.8mm thick

-EA36FT-NS+ + Lock screw (HDR-E14LMY-SL-02C) panel:0.5-0.8mm thick

Required tools: Clamp caulking tools: FLPT-0024A (Refer to page Tool-10) Ultrasonic welder, Housing holding jig, Sonic welder



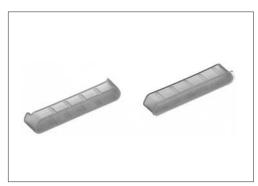


### Dust-proof cap HDRA-E68( )-CP

Accessories

Cap

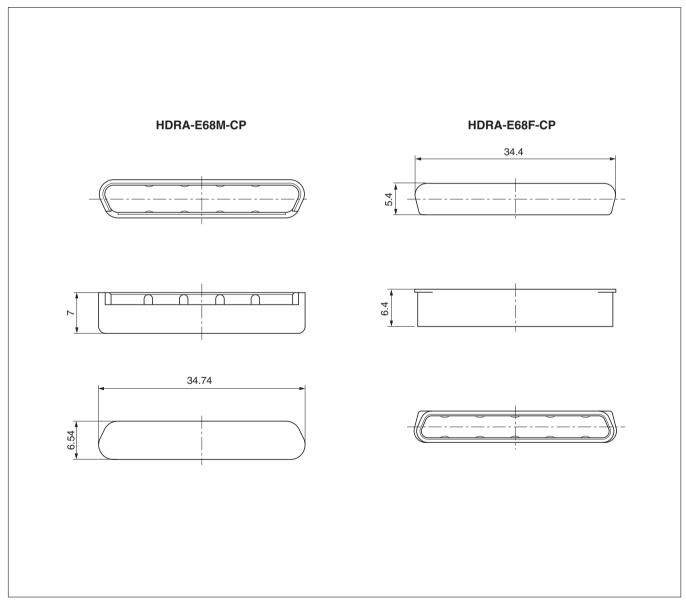
RoHS



Configuration of product Part No.

### $\frac{\text{HDRA- E } \underline{68}}{{\tiny \textcircled{2}}} \underbrace{\text{()-} \underline{\text{CP}}}_{{\tiny \textcircled{4}}}$

- ① Series name
- 2 No. of contacts: 68
- 3 M: For male connector
  - F: For female connector
- ④ Cap



For use with housings: HDRA-E68LGKPC~F