

0.8mm Pitch



Connectors

HDR series

Interface Connectors

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Outline

HDR series connectors are very small surface mount (SMT) interface connectors with their contacts arranged at a pitch of 0.8 mm, designed for the purpose of saving extra space on printed circuit boards.

Features

- Long-life design allowing up to 5,000 mating cycles
- Low profile with overall height of 5mm from the PCB surface
- Sequential structure allowing up to two stacked connections
- One-touch-lock-type and detachable / re-attachable housing
- EMI/ESD-shielded and over-molded type metal housing
- IDC type connector on the cable end allows simultaneous termination

Principal Applications

Portable information terminals, smaller-sized office automation equipment, and their peripherals

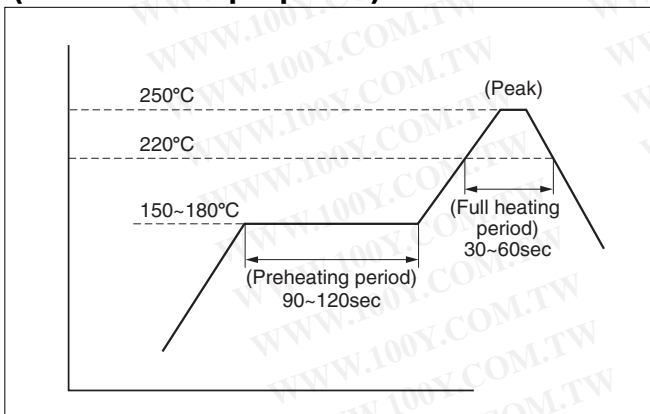
Electrical Characteristics

Rated voltage	125V AC (r.m.s.)
Rated current	0.5 A
Insulation resistance	Over 1000 megohms at 250V DC
Dielectric withstanding voltage	350V AC (r.m.s.)
Contact resistance	70 milliohms or less

Document Disclaimer

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- The specifications and information shown in the catalog are subject to change without notice.

Reflow temperature profile (for reference purposes)



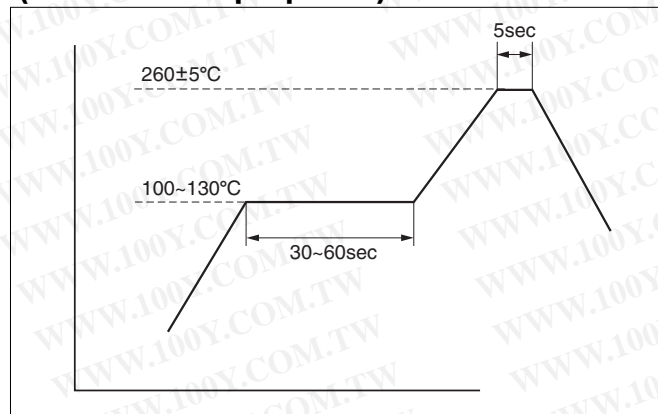
The reflow temperature profile shown in this drawing is for reference purposes. This profile depends on requirements such as reflow equipment, soldering paste, and PCB size. Thus, this profile may not meet with your specific situation. Please evaluate your PCB-mounting soldering and set your own reflow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

●Applicable products

HDR-EA()LMYPG1-()(+)

HDR-EA()LFYPG1-()(+)

Flow temperature profile (for reference purposes)



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●Applicable products

HDR-EC()FDT()-()(+)

HDR-EC()LFDT()-()(+)

Product List



IDC type male connector for cable
HDR-E()MAG1+

A-6
HDR series...4



Soldering type male connector for cable
HDR-E()MSG1+

A-7
HDR series...5



Straddle SMT type male connector for PCB
HDR-E50MT()+

A-8
HDR series...6



Right-angle SMT type male connector for PCB
HDR-EA()LMYPG1-()(+)

A-9
HDR series...7



IDC type female connector for cable
HDR-E()FAG1+

A-10
HDR series...8



Right-angle SMT type female connector for PCB
HDR-EA()LFYPG1-()(+)

A-11
HDR series...9



Straight through hole type female connector for PCB
HDR-EC()FDT()-()+

A-12
HDR series...10



Right-angle through hole type female connector for PCB
HDR-EC()LFDT()-()+

A-13
HDR series...11



EMI-filtered vertical plastic housing for standard and thin cable
HDR-E()LP()-()

A-14
HDR series...12



EMI-filtered screw-lock vertical type plastic housing
HDR-E26LPH

A-15
HDR series...13

IDC type male connector for cable
HDR-E () MAG1+

For cable

IDC

EMI shielded

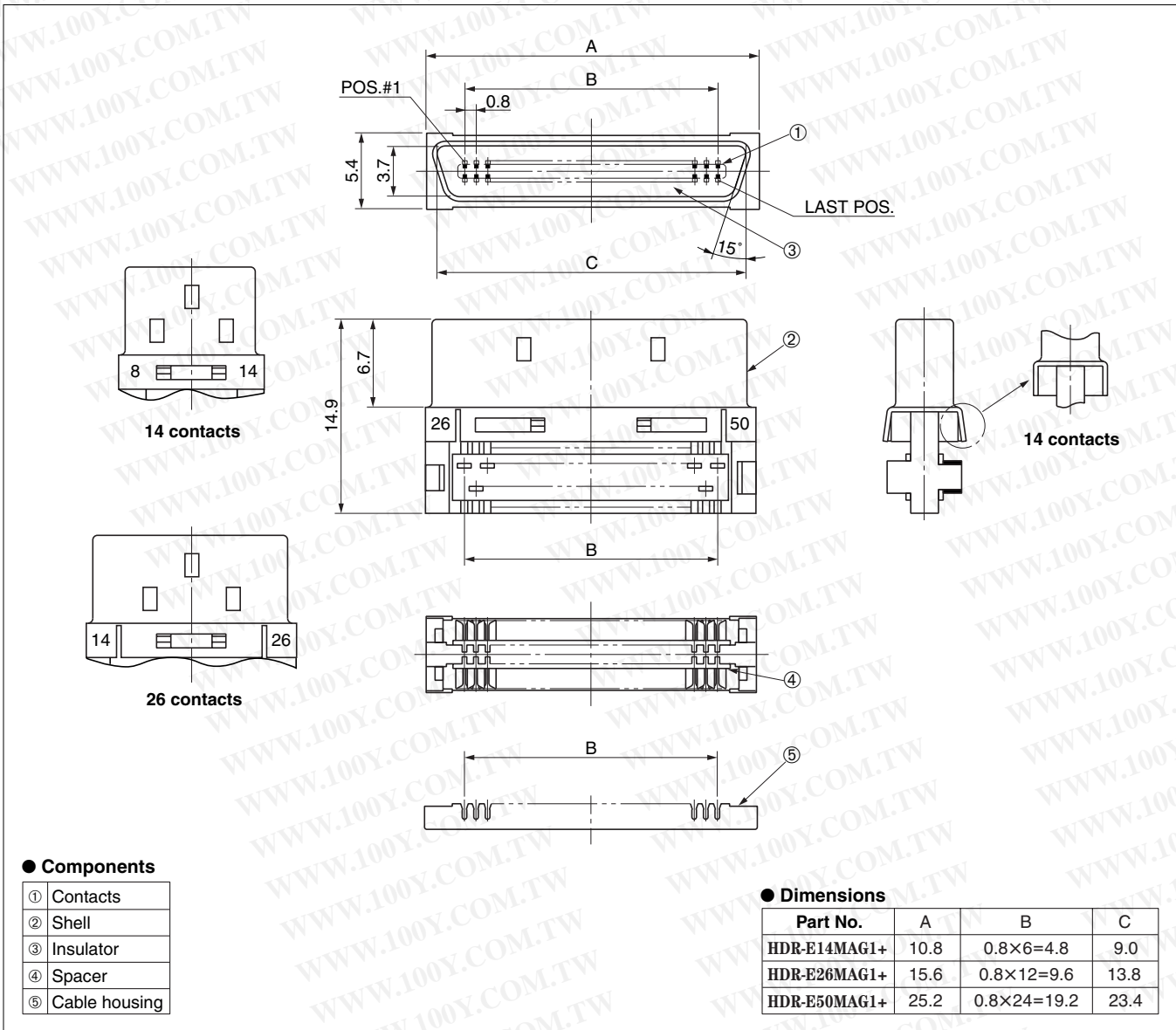
RoHS



● Configuration of product Part No.

HDR-E () MAG1+

- | | |
|---------------------------------|--------------------------------|
| ① Series name | ⑤ Compatible cable |
| ② E: With metal shell | A: AWG#30 (7/0.1), dia. 0.58mm |
| ③ No. of contacts: 14, 26 or 50 | ⑥ Contact plating |
| ④ Type of contact | G1: 0.76μm or more Gold plate |
| M: IDC type, Male | |



Mating connector: HDR series SMT type or through hole type female connector

For use with housings: HDR series upright housing

Soldering type male connector for cable
HDR-E()MSG1+

For cable

Soldering

EMI shielded

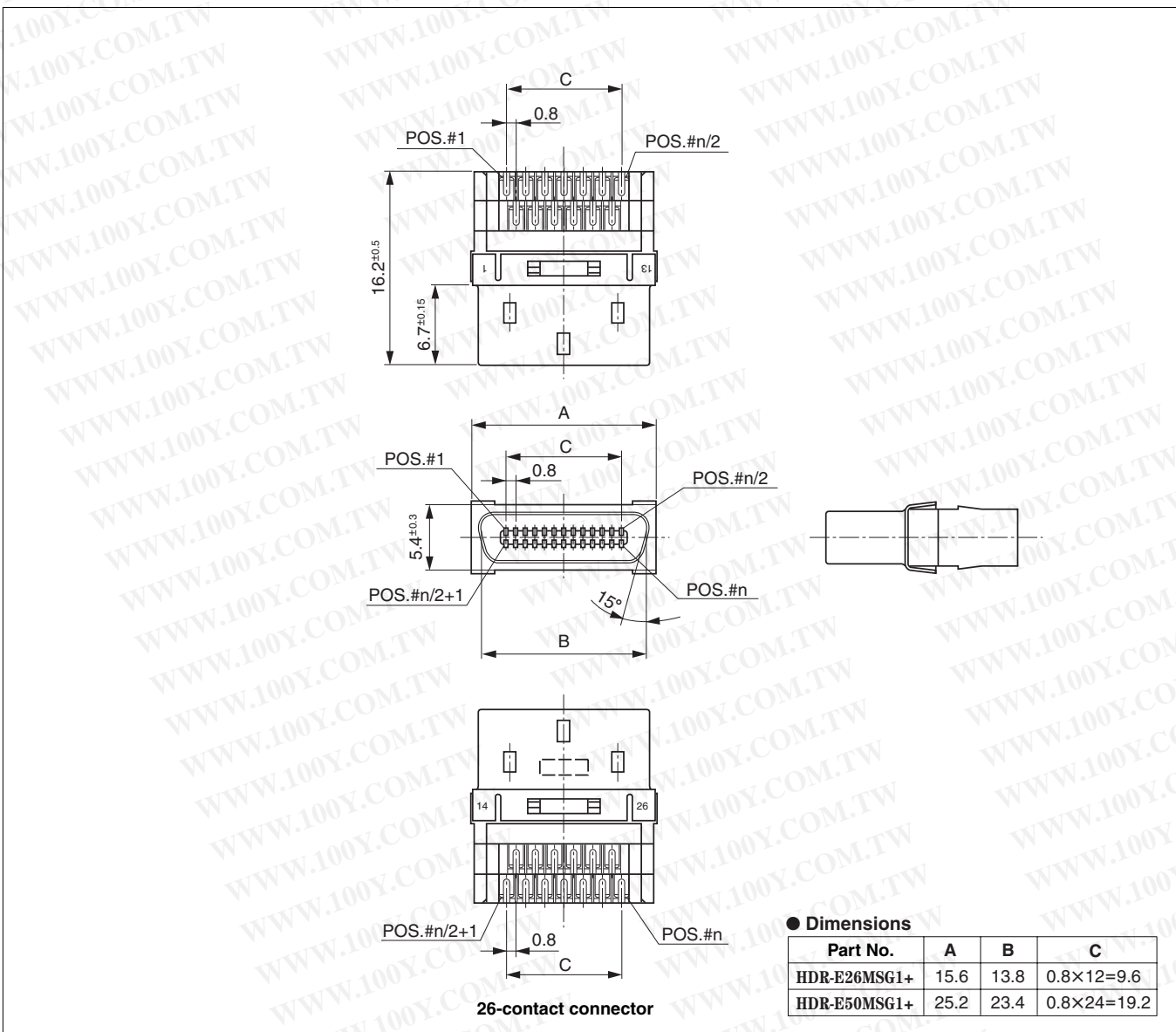
RoHS



● Configuration of product Part No.

HDR- E () M S G1+

- ① Series name
 - ② E: With metal shell
 - ③ No. of contacts: 26 or 50
 - ④ Male
 - ⑤ Soldering
 - ⑥ Contact plating
- G1: 0.76μm or more Gold plate



Mating connector: HDR series female connector

For use with housings: HDR-E()LPH

Straddle SMT type male connector for PCB HDR-E50MT()+

For PCB

Straddle SMT

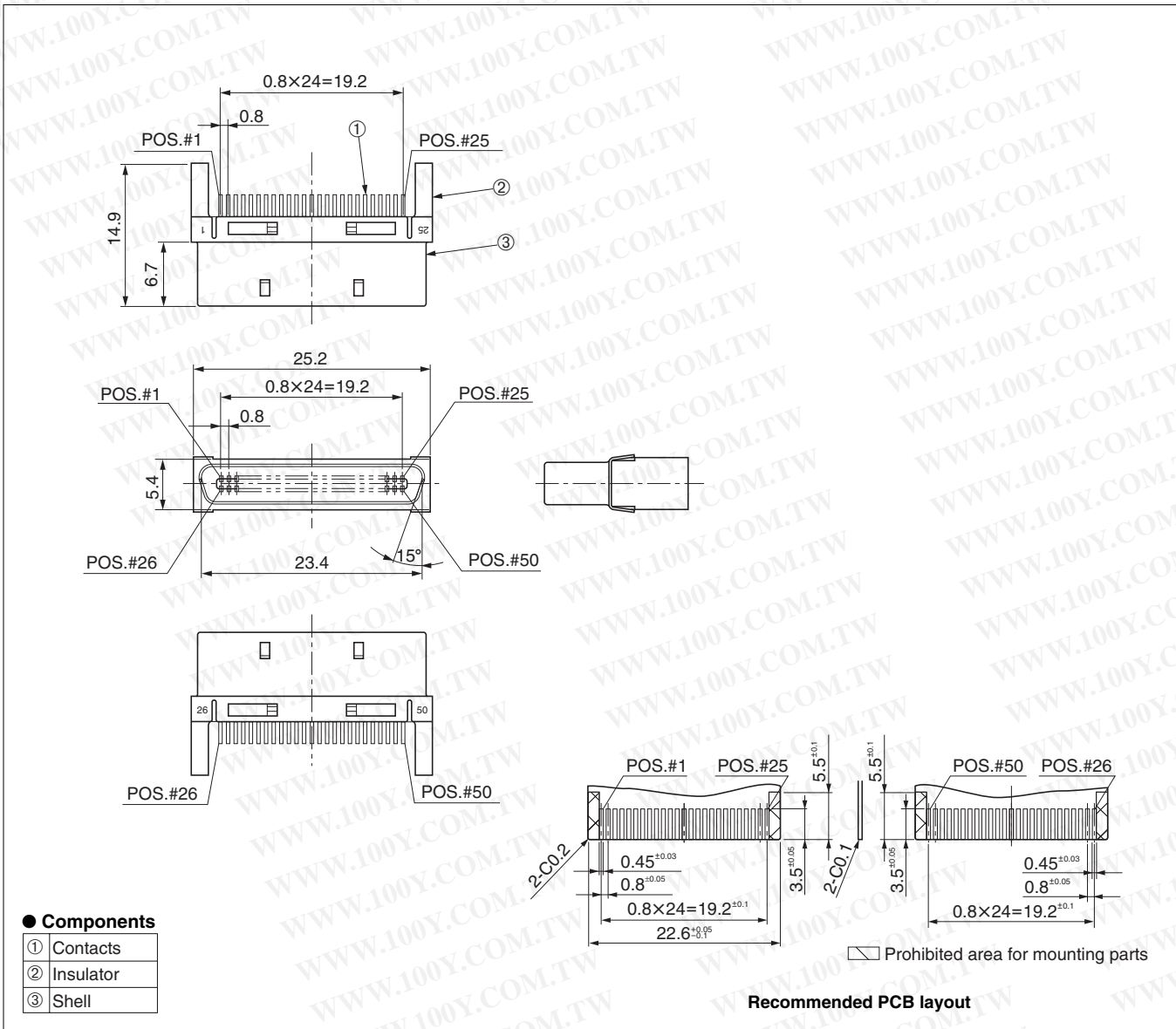
RoHS



● Configuration of product Part No.

HDR- E 50 MT ()+

- ① Series name
- ② No. of contacts: 50
- ③ Type of contact
MT: Straddle SMT type, male
- ④ PCB thickness
Blank: 0.4 mm
A : 0.8 mm



● Components

①	Contacts
②	Insulator
③	Shell

Mating connector: HDR series SMT type female connector

Right-angle SMT type male connector for PCB
HDR-EA()LMYPG1-()()+

For PCB

Right-angle SMT

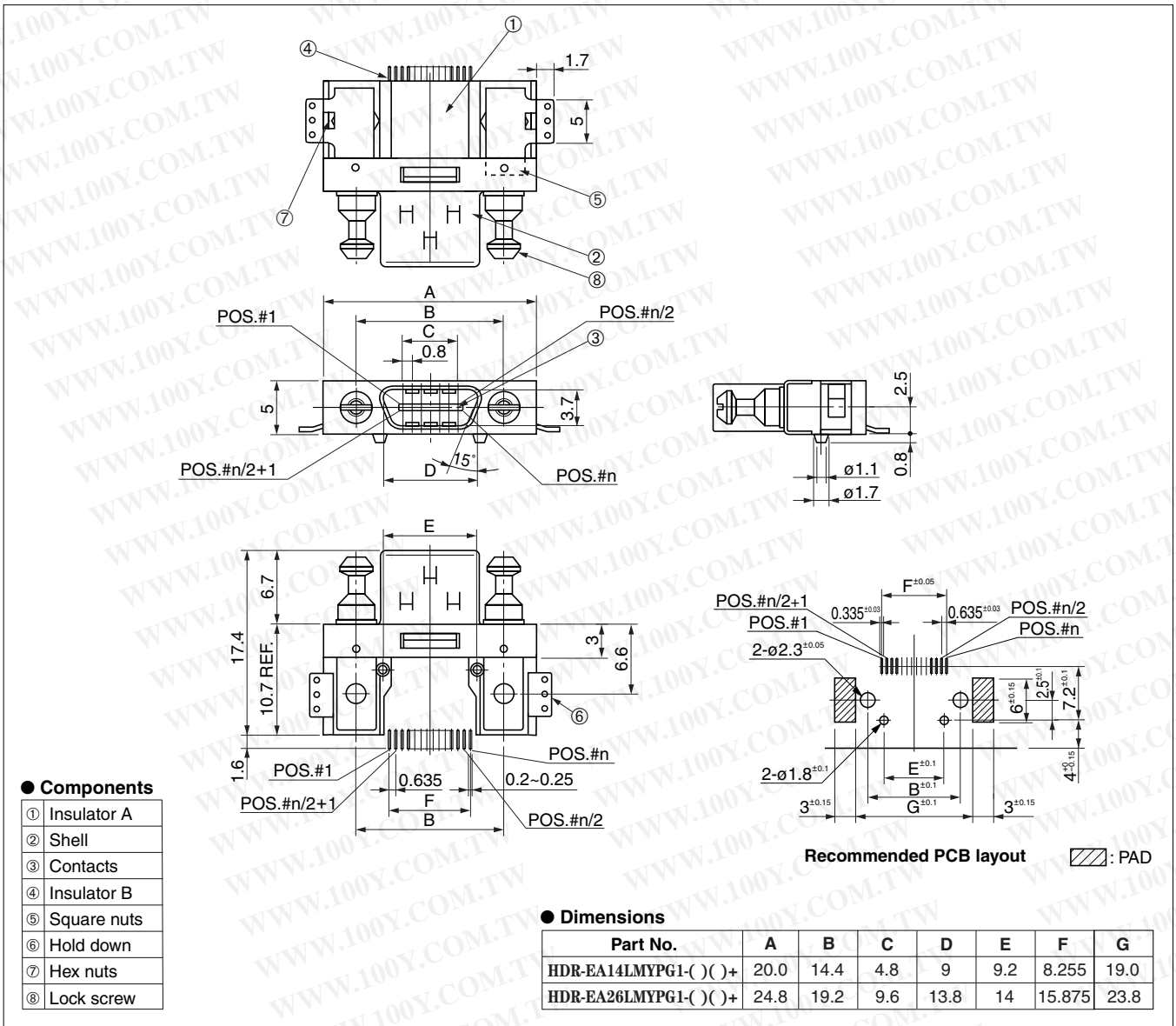
RoHS



● Configuration of product Part No.

HDR-EA() LMY P G1-()()+

- | | |
|---------------------------------|-----------------------------------|
| ① Series name | ⑥ Lock screw |
| ② Contact pitch: 0.635 mm | Blank : None |
| ③ No. of contacts: 14 or 26 | SL : Provided |
| ④ Type of contact | ⑦ Length of lock screw |
| LMY: Right-angle SMT type, male | E: 6.6 (standard) |
| ⑤ Contact plating | K: 3.3 (for HDR-E () LPA-LS) |
| G1: 0.76 μm or more Gold plate | Compatible with B-to-B and B-to-C |



Mating connector: HDR series IDC type or solder type female cable connector

For use with housing: -SLE: HDR series vertical housing

-SLK: HDR series vertical housing -LS, -LSA

IDC type female connector for cable
HDR-E()FAG1+

For cable

IDC

EMI shielded

RoHS

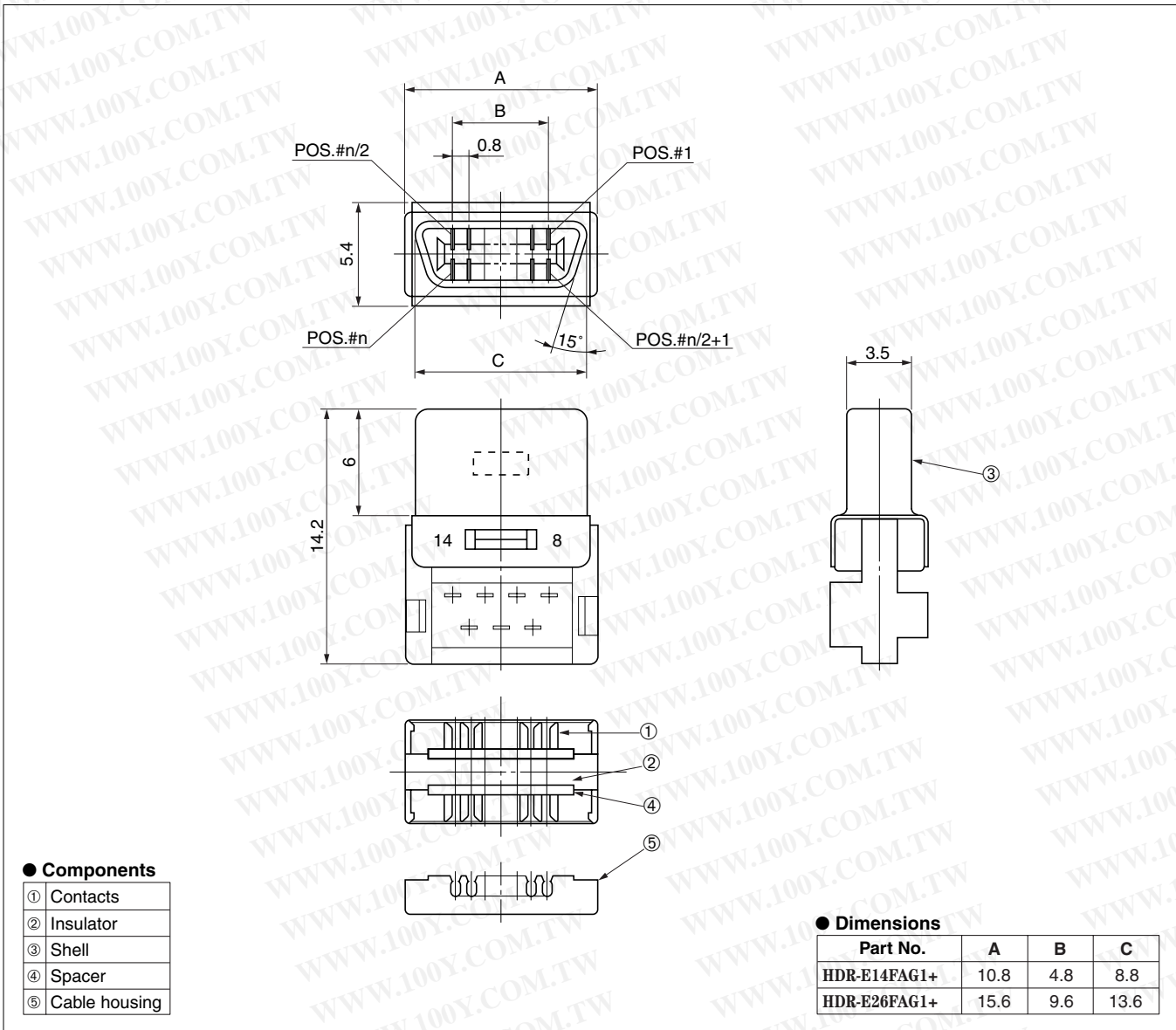


● Configuration of product Part No.

HDR-E()F A G1+

- ① Series name
- ② E: With metal shell
- ③ No. of contacts: 14 or 26
- ④ Type of contact
F: IDC type, female

- ⑤ Compatible cable
A: AWG#30 (7/0.1), dia. 0.58 mm
- ⑥ Contact plating
G1: 0.76 μm or more Gold plate



● Components

①	Contacts
②	Insulator
③	Shell
④	Spacer
⑤	Cable housing

● Dimensions

Part No.	A	B	C
HDR-E14FAG1+	10.8	4.8	8.8
HDR-E26FAG1+	15.6	9.6	13.6

Mating connector: HDR series SMT type male connector

For use with housings: HDR series vertical housing

Right-angle SMT type female connector for PCB
HDR-EA()LFYPG1-()(+)

For PCB

Right-angle SMT

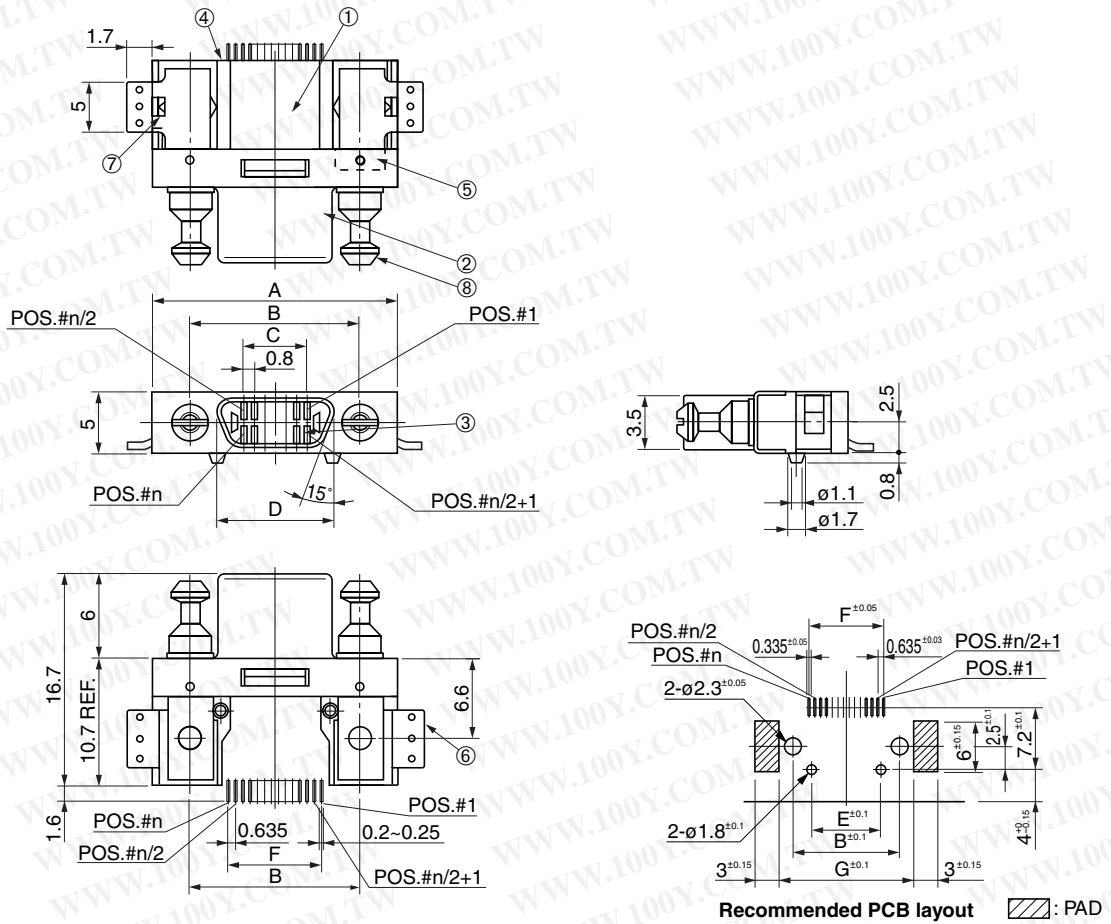
RoHS



● Configuration of product Part No.

HDR-EA () LFY P G1- () ()+

- | | |
|-----------------------------------|-----------------------------------|
| ① Series name | ⑥ Lock screw |
| ② Contact pitch: 0.635 mm | Blank: None |
| ③ No. of contacts: 14 or 26 | SL : Provided |
| ④ Type of contact | ⑦ Length of lock screw |
| LFY: Right-angle SMT type, female | E: 6.6 (standard) |
| ⑤ Contact plating | K: 3.3 (for HDR-E () LPA-LS) |
| G1: 0.76 μm or more Gold plate | Compatible with B-to-B and B-to-C |



● Components

- | |
|---------------|
| ① Insulator A |
| ② Shell |
| ③ Contacts |
| ④ Insulator B |
| ⑤ Square nuts |
| ⑥ Hold down |
| ⑦ Hex nuts |
| ⑧ Lock screw |

● Dimensions

Part No.	A	B	C	D	E	F	G
HDR-EA14LFYPG1-()(+)	20.0	14.4	4.8	8.8	9.2	8.255	19.0
HDR-EA26LFYPG1-()(+)	24.8	19.2	9.6	13.6	14	15.875	23.8

Mating connector: HDR series IDC or solder type male cable connector

For use with housing: -SLE: HDR series vertical housing

-SLK: HDR series vertical housing -LS, -LSA

Straight through hole type female connector for PCB
HDR-EC()FDT()-()+

For PCB

Straight Through hole

RoHS

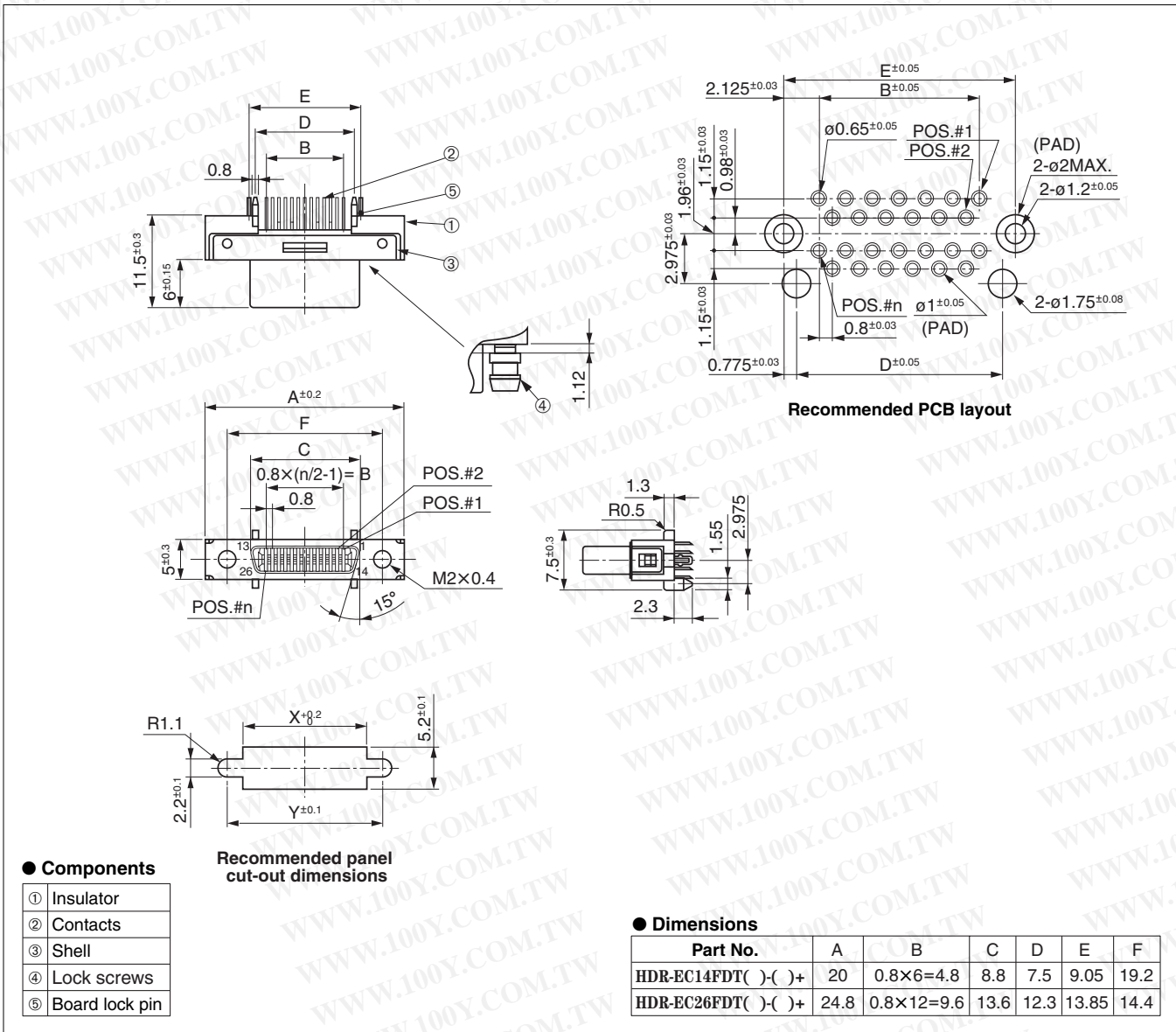
EMI shielded



● Configuration of product Part No.

HDR- EC () FD T ()- ()+

- | | |
|--|----------------------------|
| ① Series name | ⑥ Lock screw |
| ② No. of contacts: 14 or 26 | Blank: None |
| ③ Type of contact | SL : Provided |
| FD: Straight through hole type, female | (Panel thickness: 1.12 mm) |
| ④ With ground contact | |
| ⑤ Contact plating | |
| G2: Min. 0.76 μm Gold plate | |



Mating connector: HDR series male connector

Right-angle through hole type female connector for PCB
 HDR-EC()LFD T()-()+

For PCB

Right-angle Through hole

RoHS

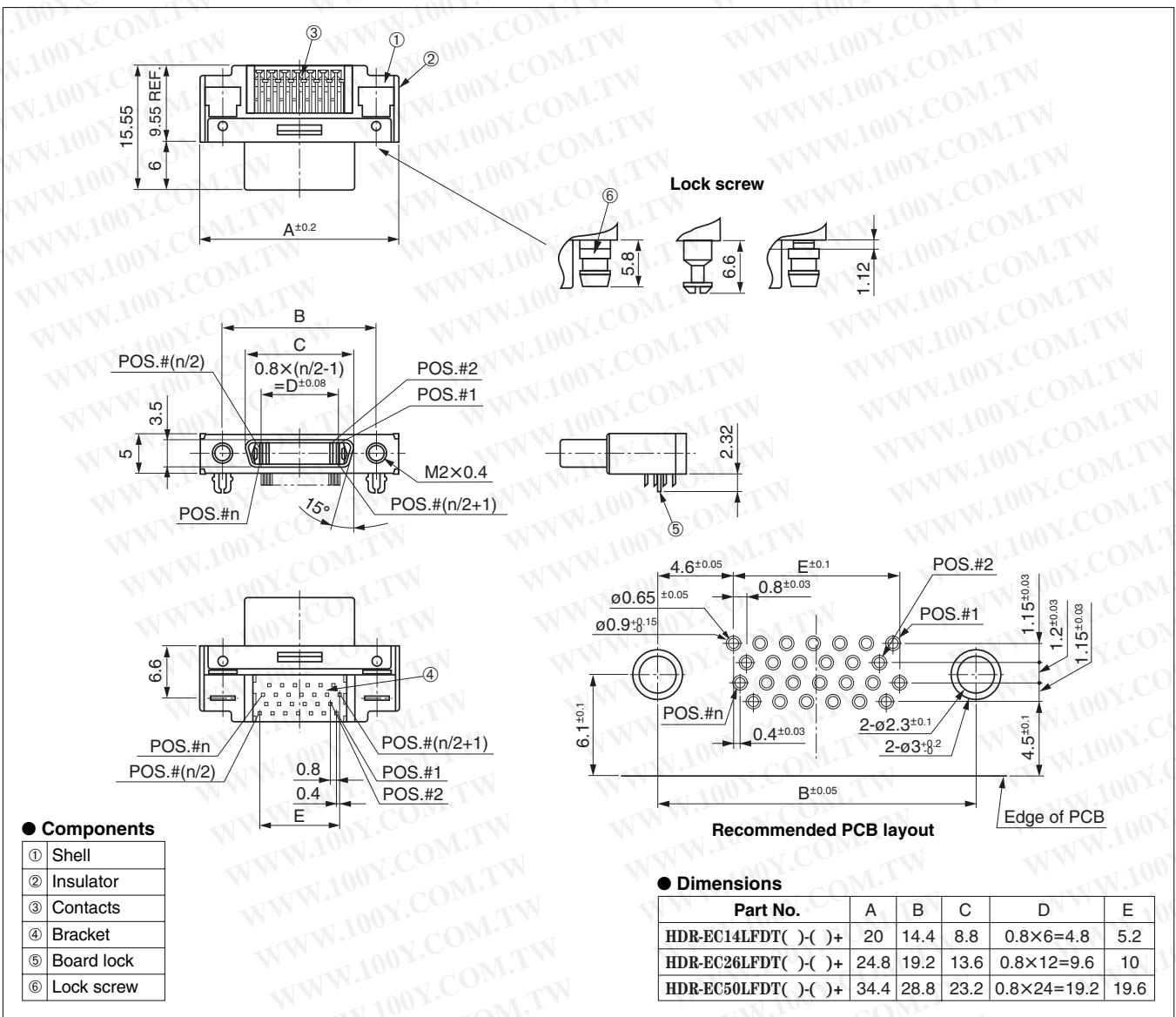
EMI shielded



● Configuration of product Part No.

HDR- EC () LFD T ()-()+

- | | |
|--|----------------------------|
| ① Series name | ⑥ Lock screw |
| ② No. of contacts: 14, 26 or 50 | Blank: None |
| ③ Type of contact | SLD : Screw lock |
| LFD: Right-angle through hole type, female | SLE : Spring lock |
| ④ With ground contact | SLG : Screw lock |
| ⑤ Through hole length, contact plating | (Panel thickness: 1.12 mm) |
| Blank : 1.65 mm, } Min. 0.1 μm Gold plate | |
| 1 : 2.08 mm, } + Min. 0.5 μm Palladium alloy | |
| G2 : 2.08 mm, Min. 0.76 μm Gold plate | |



Mating connector: HDR series male connector

EMI-filtered vertical plastic housing for standard and thin cable
HDR-E()LP()(-)()

Housing

Vertical

RoHS

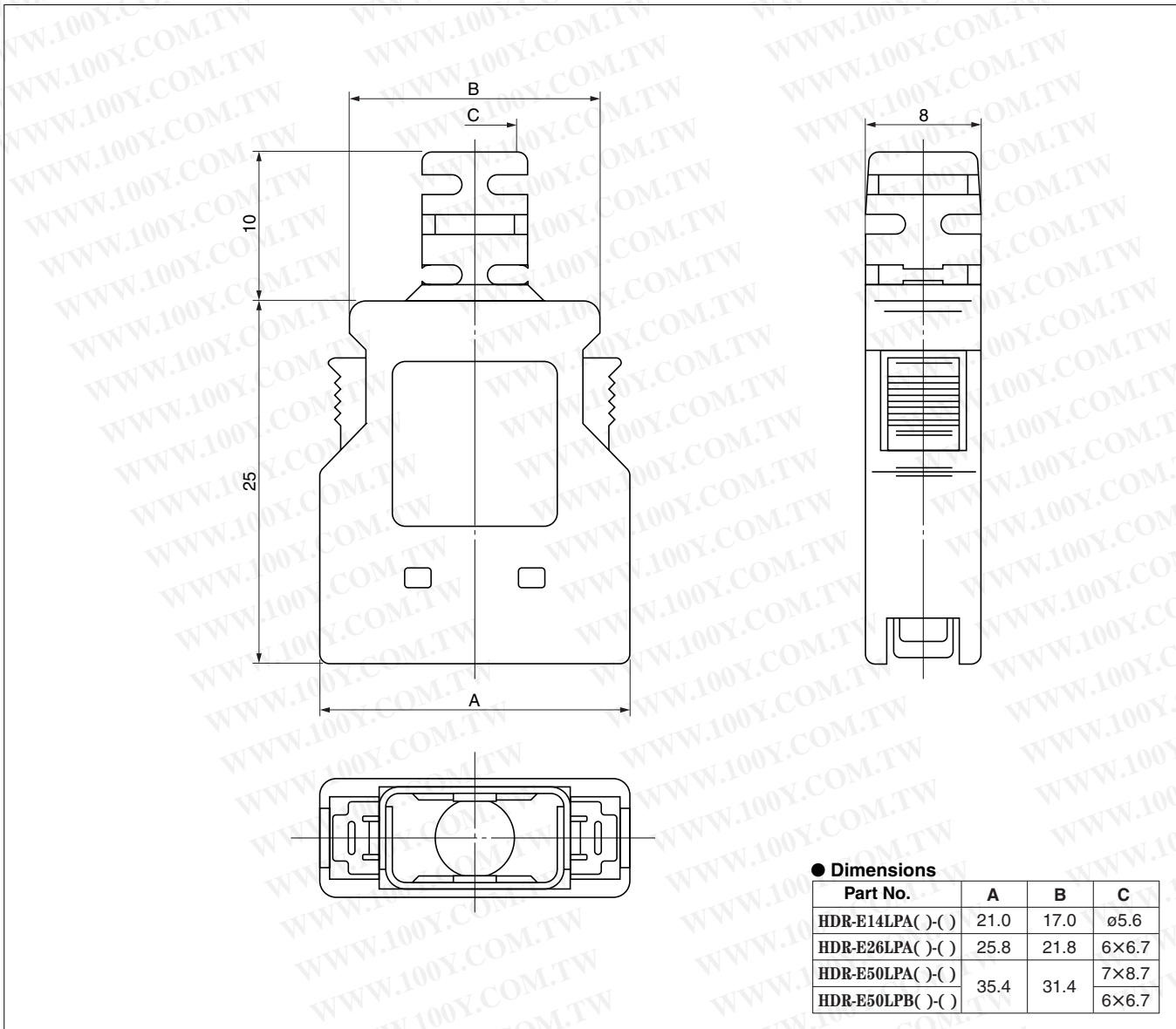
EMI shielded



● Configuration of product Part No.

HDR-E () LP () () - ()

- ① Series name
- ② No. of contacts 14, 26 or 50
- ③ Type of housing: Vertical type
- ④ Compatible cable
 A: Standard cable
 B: Thin cable
- ⑤ Color of housing
 Blank: Gray
 5 : Black
- ⑥ Length of lock spring
 Blank: PCB side lock screw -SLE
 LS : PCB side lock screw -SLK



For use with connectors: HDR series IDC type cable connector HDR-E()MAG1+, HDR-E()FAG1+

Required tools: Clamp caulking tools: FHPT-0024A, for 14 contacts cable connectors (Refer to page Tool-10)

FHPT-0022A, for 26 contacts and 50 contacts thin cable connectors

FHPT-0023A, for 50 contacts thick (standard) cable connectors

EMI-filtered screw-lock vertical type plastic housing
HDR-E26LPH

Housing

Vertical

RoHS

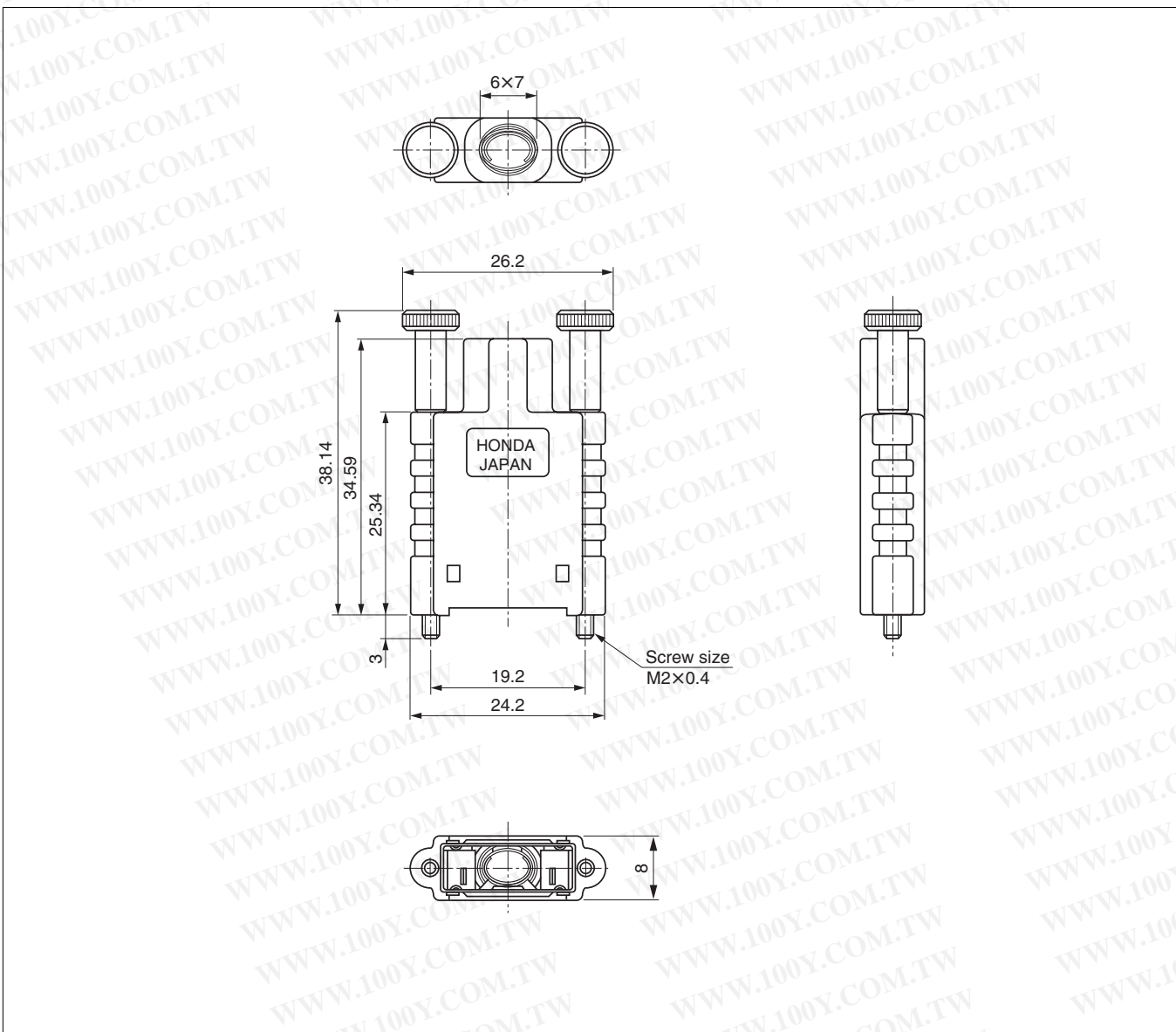
EMI shielded



● Configuration of product Part No.

HDR- E 26 LP H

- ① Series name
- ② No. of contacts: 26
- ③ Type of housing
- ④ Serial number



Mating connector: HDR series female connector

For use with connector: HDR-E26MAG1+, HDR-E26MSG1+

Required tools: Clamp caulking tools: MHPT-0006A

EMI-filtered vertical type plastic housing with mounting hardware for spring-lock, for heavy wires and relay connections
HDR-E26LPKA+

Housing

For Relay connections

EMI-filtered countermeasures

RoHS

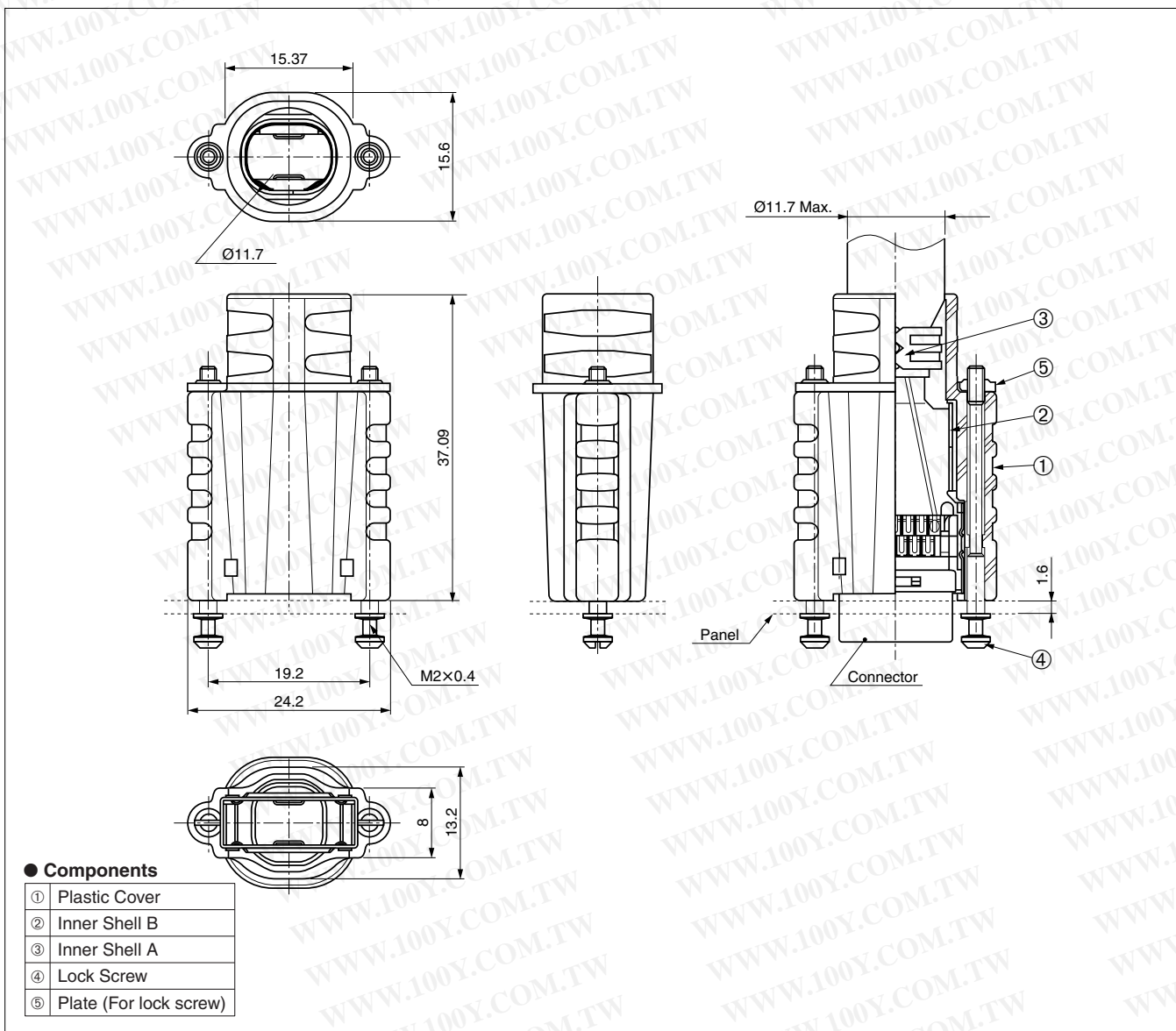


● Configuration of product Part No.

HDR- E 26 LP K A+

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 26
- ③ Form of housing
Vertical type housing
- ④ Serial number
For use with cables: Outside diameter of heavy wire: 10.0-11.7 mm
- ⑤ Thickness of relay panel: 1.6 mm



Mating connector: HDR series of spring-lock type connector

For use with connectors: HDR series of soldering type male or female connector

HDR series of IDC type male or female connector

**EMI-filtered screw-lock vertical type plastic housing
for heavy wires
HDR-E26LPK+**

Housing

Vertical type

EMI-filtered countermeasures

RoHS

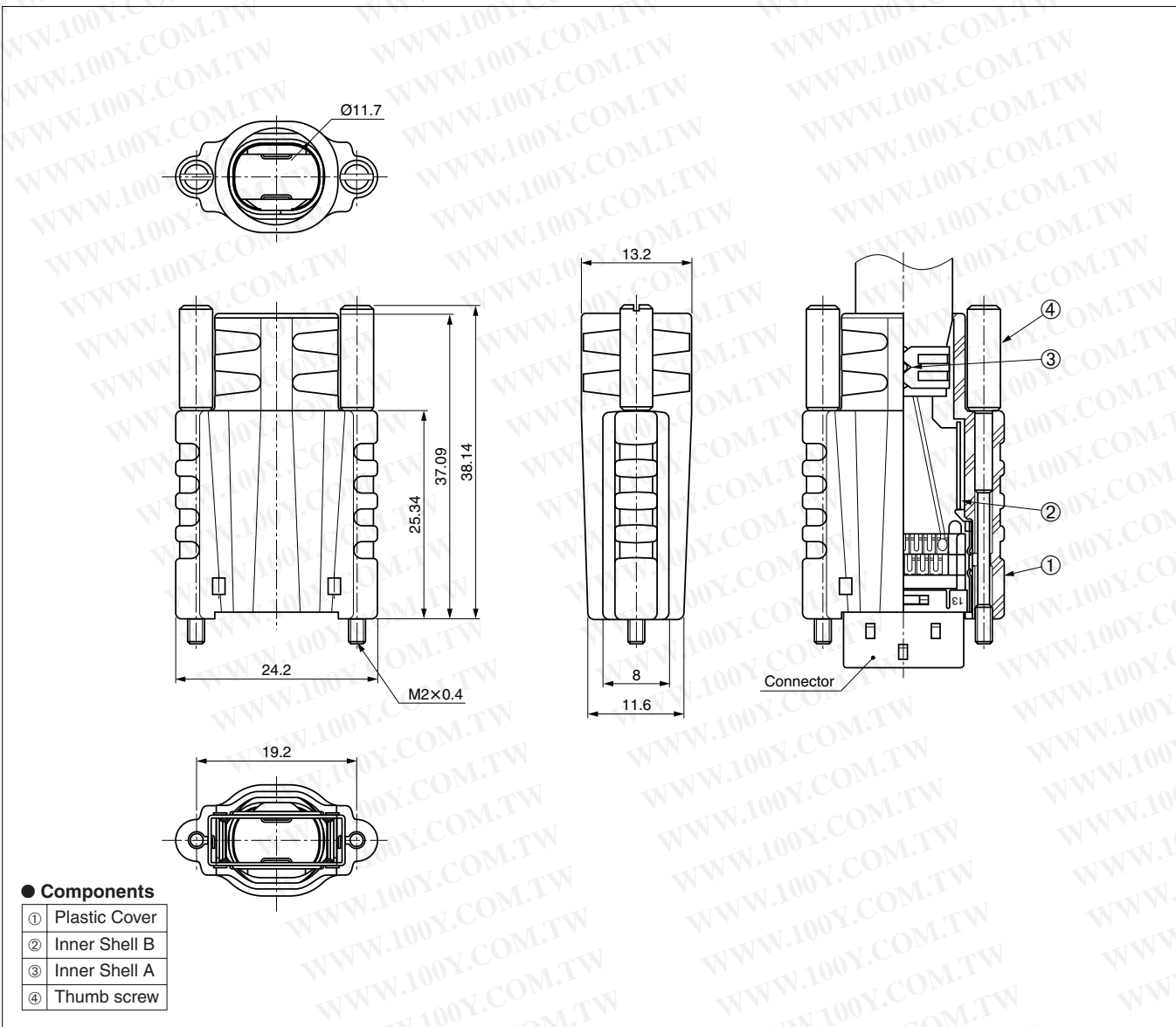


● Configuration of product Part No.

HDR- E 26 LP K+

① ② ③ ④

- ① Series name
 - ② No. of contacts: 26
 - ③ Form of housing
Vertical type housing
 - ④ Serial number
- For use with cables: Outside diameter of cable: 10.0-11.7 mm



● Components

①	Plastic Cover
②	Inner Shell B
③	Inner Shell A
④	Thumb screw

Mating connector: HDR series of screw-lock type connector

For use with connectors: HDR series of soldering type male or female connector

HDR series of IDC type male or female connector

EMI-filtered spring-lock vertical type plastic housing
HDR-E26LPJ+

Housing

Vertical type

RoHS

EMI-filtered countermeasures

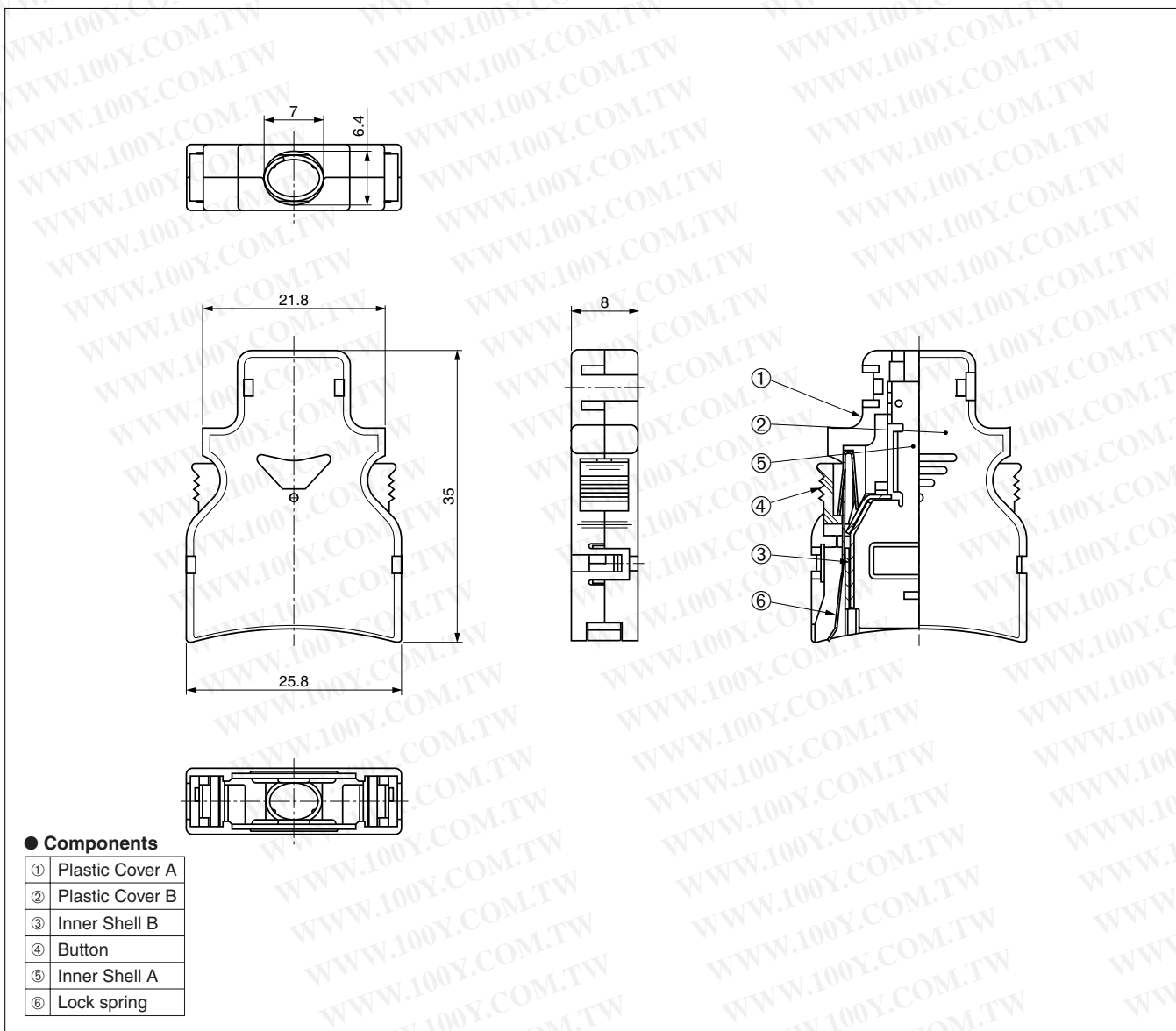


● Configuration of product Part No.

HDR- E 26 LP J+

① ② ③ ④

- ① Series name
- ② No. of contacts: 26
- ③ Form of housing
Vertical type housing
- ④ Serial number



Mating connector: HDR series of spring-lock type connector

For use with connectors: HDR series of soldering type male or female connector

HDR series of IDC type male or female connector

EMI-filtered vertical type plastic housing with mounting hardware for spring-lock, for thin wires and relay connections
HDR-E26LPHA+

RoHS

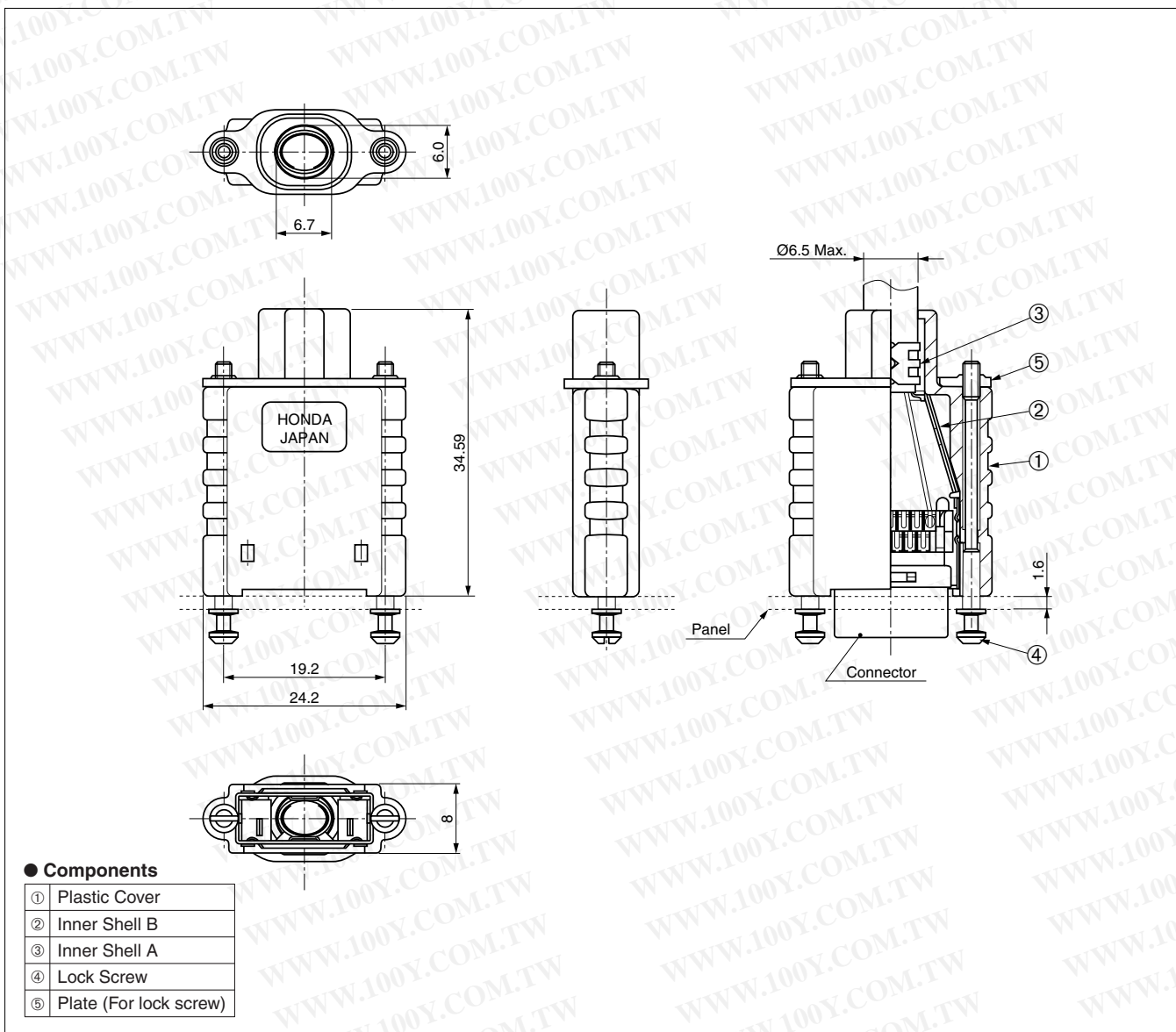


● Configuration of product Part No.

HDR- E 26 LP H A+

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 26
- ③ Form of housing
Vertical type housing
- ④ Serial number
For use with cables: Outside diameter of thin wire: 5.8-6.5 mm
- ⑤ Thickness of relay panel: 1.6 mm



Mating connector: HDR series of screw-lock type connector

For use with connectors: HDR series of soldering type male or female connector

HDR series of IDC type male or female connector

Soldering type female connector for cables
HDR-E26FSG1+

For cables

Soldering type

RoHS

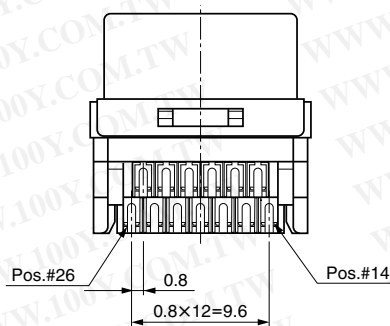
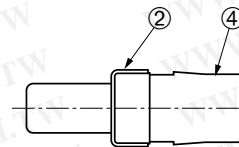
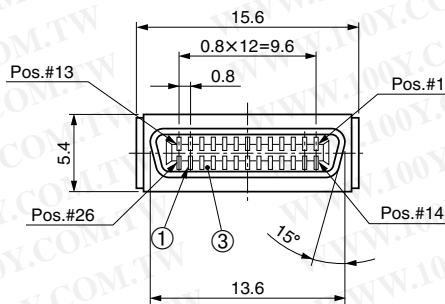
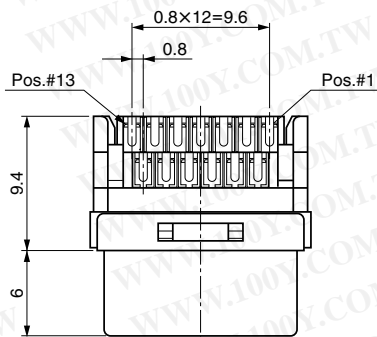
EMI-filtered countermeasures



● Configuration of product Part No.

HDR- E 26 FS G1+

- ① Series name
- ② With metal shell
- ③ No. of contacts: 26
- ④ Form of housing
FS: Soldering type, female connector, AWG#28
Insulator OD: 1.0 mm max.
- ⑤ Contact plating
G1: Min. 0.76 mm Gold plate



● Components

①	Female Contact
②	Shell
③	Insulator
④	Spacer

Mating connector: HDRA series, male connector

For use with connectors: HDR-E26LPH(), HDR-E26LPJ+, HDR-E26LPK(), HDR-E26ALP()+

EMI-filtered screw-lock right-angle type plastic housing HDR-E26ALPA+

0.8 mm pitch connector

Housing

Right-angle

EMI-filtered countermeasures

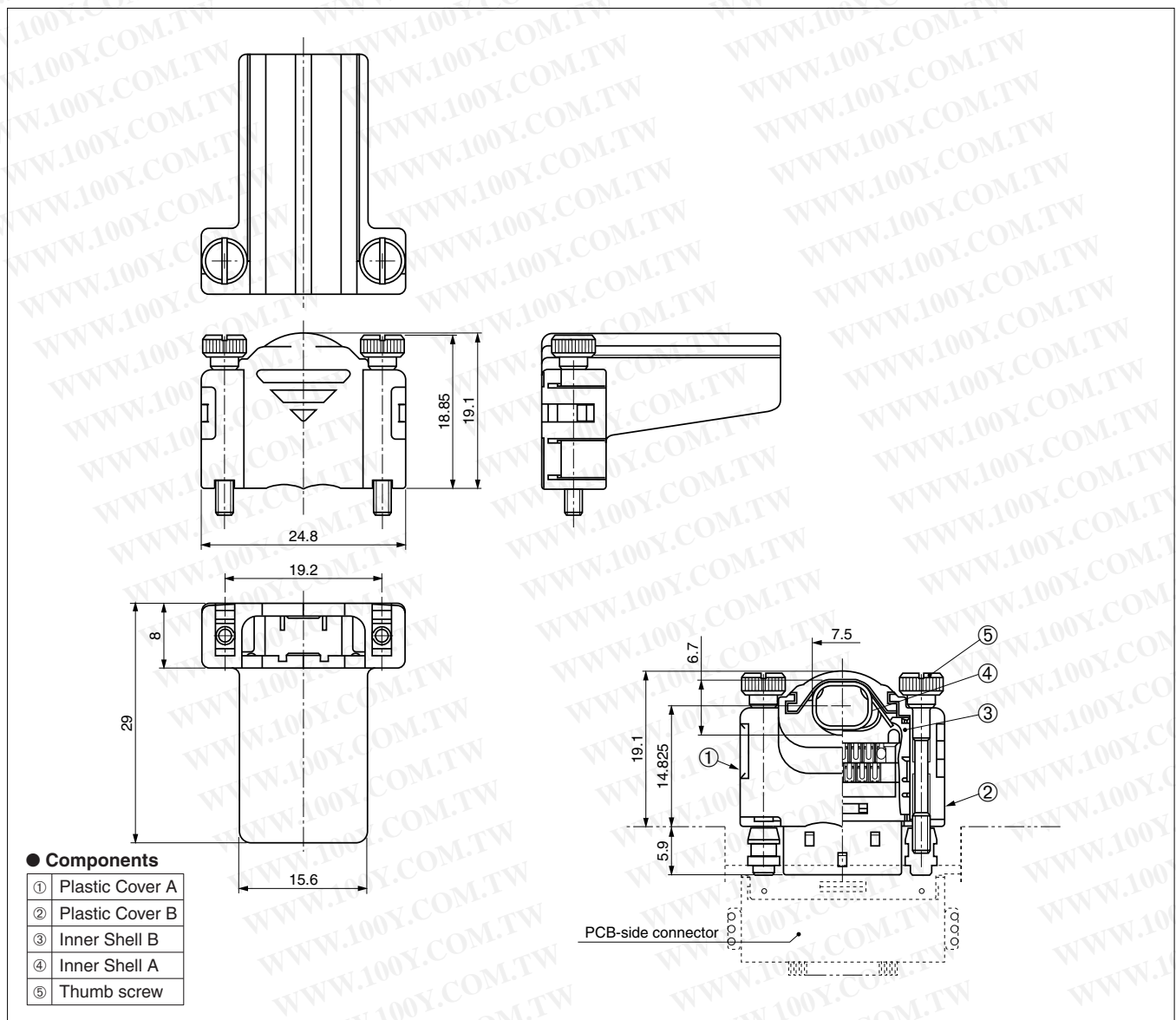
RoHS



● Configuration of product Part No.

HDR- E 26 ALP A+

- ① Series name
 - ② No. of contacts: 26
 - ③ Form of housing
Right-angle
 - ④ Serial number
- For use with cables: Outside diameter of cable: 6.2-6.8 mm



Mating connector: HDR series of screw-lock type connector

For use with connectors: HDR series of soldering type male or female connector

HDR series of IDC type male or female connector

EMI-filtered screw-lock vertical type plastic housing
HDR-E50LPH

Housing

Vertical type

EMI-filtered countermeasures

RoHS

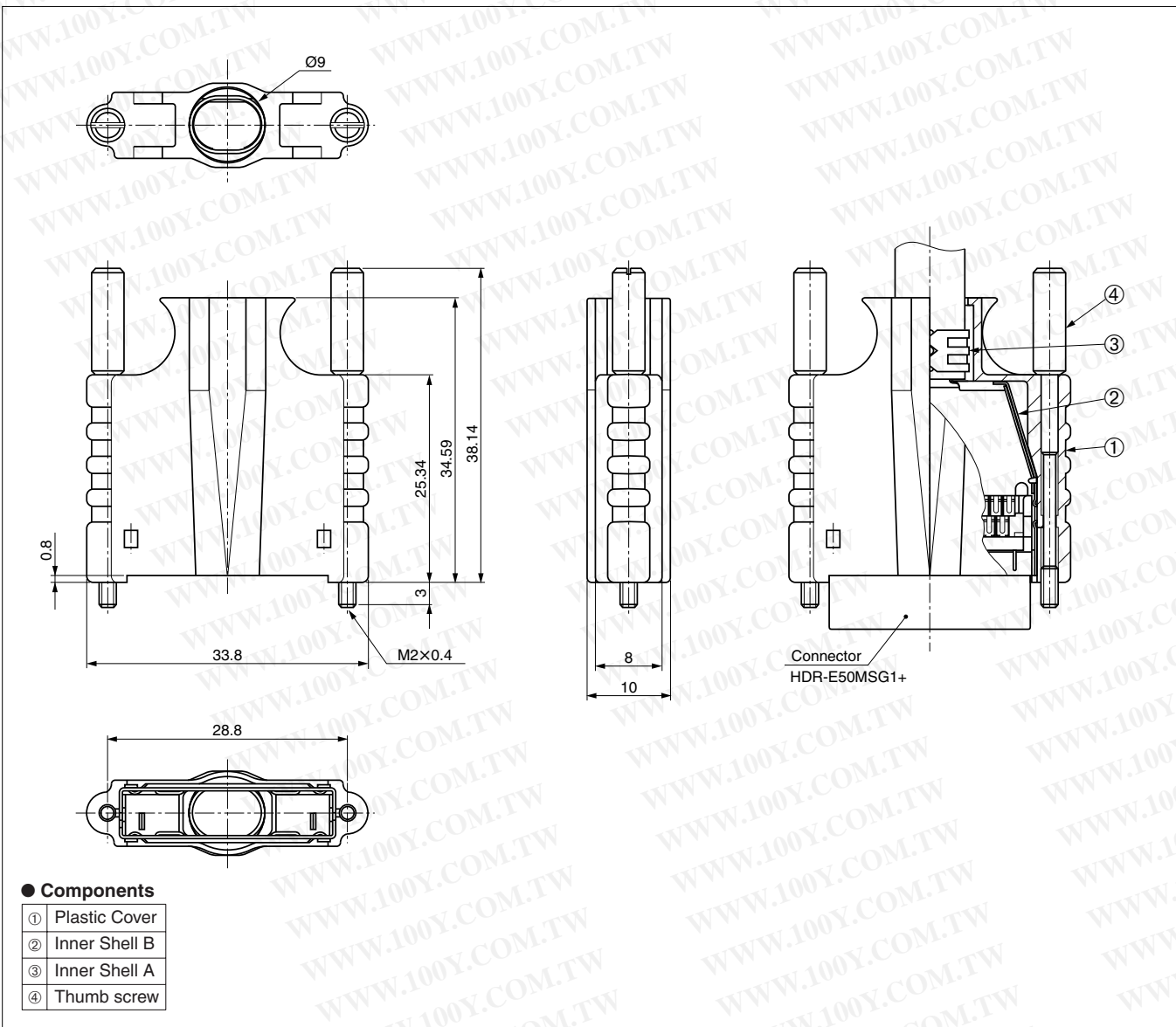


● Configuration of product Part No.

HDR- E 50 LP H

① ② ③ ④

- ① Series name
- ② No. of contacts: 50
- ③ Form of housing
Vertical type housing
- ④ Serial number



● Components

①	Plastic Cover
②	Inner Shell B
③	Inner Shell A
④	Thumb screw

Mating connector: HDR series of screw lock type connectors

For use with connectors: HDR-E50MSG1+

HDR-E50M()G()+

0.8 mm Pitch



Connectors

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

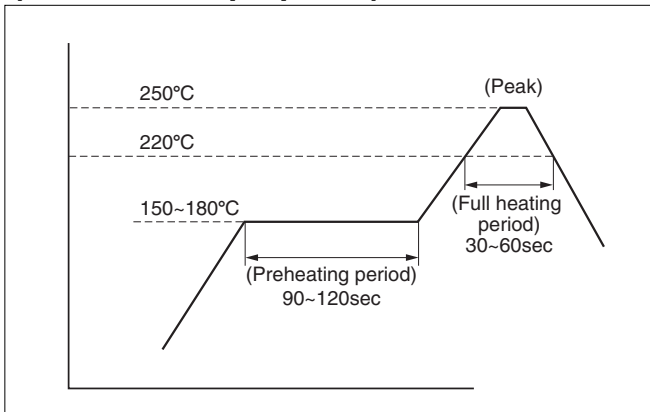
Electrical Characteristics

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)

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Reflow temperature profile (for reference purposes)

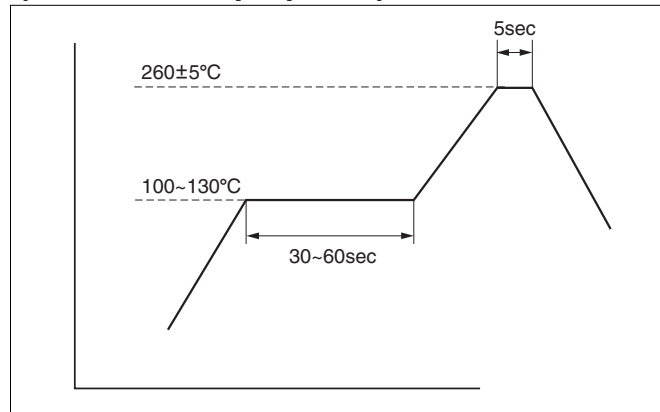


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●Applicable products

HDRA series SMT type for PCB

Flow temperature profile (for reference purposes)



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●Applicable products

HDRA series through hole type for PCB

Product List



IDC type male connector for cable
HDRA-E36MA+

A-22
HDRA series...6



IDC type male connector for cable
HDRA-E68MA+

A-23
HDRA series...7



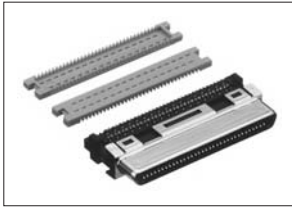
IDC type male connector for cable
HDRA-E68M()+

A-24
HDRA series...8



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

A-25
HDRA series...9



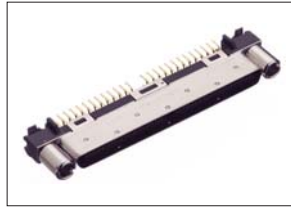
IDC type female connector for cable
HDRA-E68FAG1+

A-26
HDRA series...10



Straddle SMT type male connector for PCB
HDRA-E68MT+

A-27
HDRA series...11



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

A-28
HDRA series...12



Straight through hole type female connector for PCB
HDRA-EC68FDT+

A-29
HDRA series...13



Straight through hole type female connector for PCB
HDRA-EC100FDT+

A-30
HDRA series...14



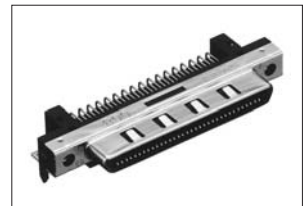
Right-angle through hole type female connector for PCB
HDRA-E68LFDT-OM18+

A-31
HDRA series...15



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

A-32
HDRA series...16



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

A-33
HDRA series...17



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

A-34
HDRA series...18



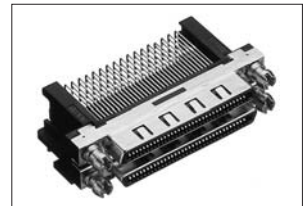
Right-angle through hole type female connector for PCB
HDRA-EA36LFDT()+

A-35
HDRA series...19



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

A-36
HDRA series...20



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

A-37
HDRA series...21



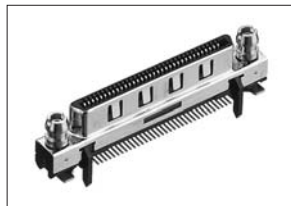
Right-angle through hole type female connector for PCB
HDRA-E68W()LFDT1EC()+

A-38
HDRA series...22



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

A-39
HDRA series...23



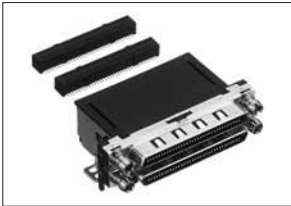
Straight SMT type female connector for PCB
HDRA-E68FYT()+

A-40
HDRA series...24



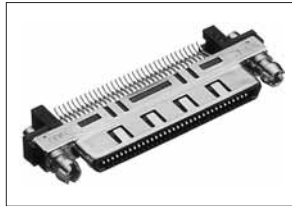
Right-angle SMT type female connector for PCB
HDRA-ED68LFZGT()-()+

A-41
HDRA series...25



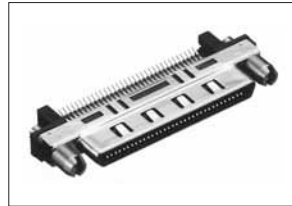
Right-angle SMT type female connector for PCB
HDRA-ED136LFZGT()-()+

A-48
HDRA series...26



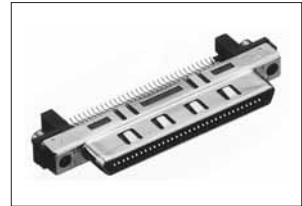
Straddle SMT type female connector for PCB
HDRA-E68FT+

A-49
HDRA series...27



Straddle SMT type female connector for PCB
HDRA-E68FT2-()+

A-50
HDRA series...28



Straddle SMT type female connector for PCB
HDRA-E68FT2-OM06+

A-51
HDRA series...29



Straddle SMT type female connector for PCB
HDRA-EA36FT-NS+

A-52
HDRA series...30



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

A-53
HDRA series...31



EMI-filtered vertical metallic housing
HDRA-E100LPA

A-54
HDRA series...32



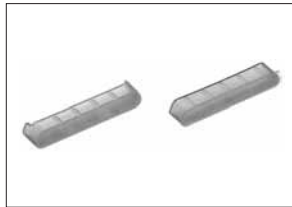
EMI-filtered vertical metallic housing
HDRA-E100LPW()

A-55
HDRA series...33



EMI-shielded vertical plastic housing
HDRA-E36LPTH

A-56
HDRA series...34



Dust-proof cap
HDRA-E68()-CP

A-57
HDRA series...35

IDC type male connector for cable
HDRA-E36MA+

For cable

IDC

RoHS

ANSI/SFF8441

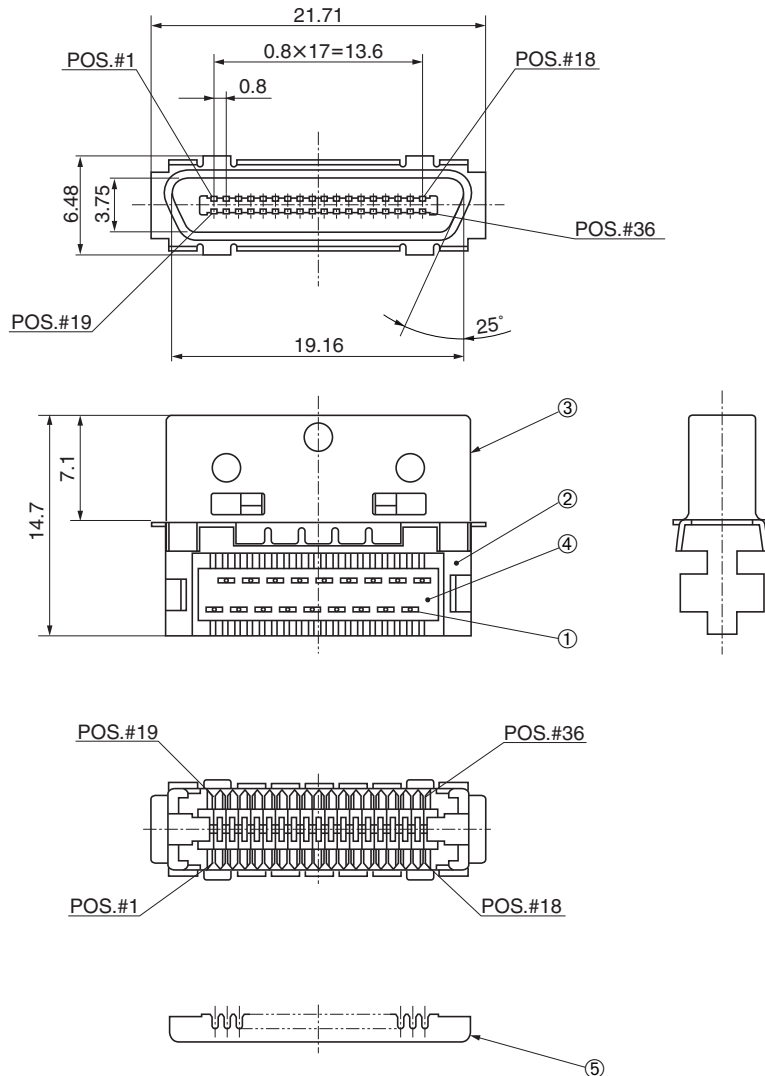


● Configuration of product Part No.

HDRA- E 36 MA+

① ② ③ ④

- ① Series name
- ② No. of contacts: 36
- ③ Type of contact
M: IDC type, male
- ④ Compatible cable
A: AWG#30(7/0.1), dia. 0.58 mm



● Components

①	Contacts
②	Insulator
③	Shell
④	Spacer
⑤	Cable housing

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

RoHS

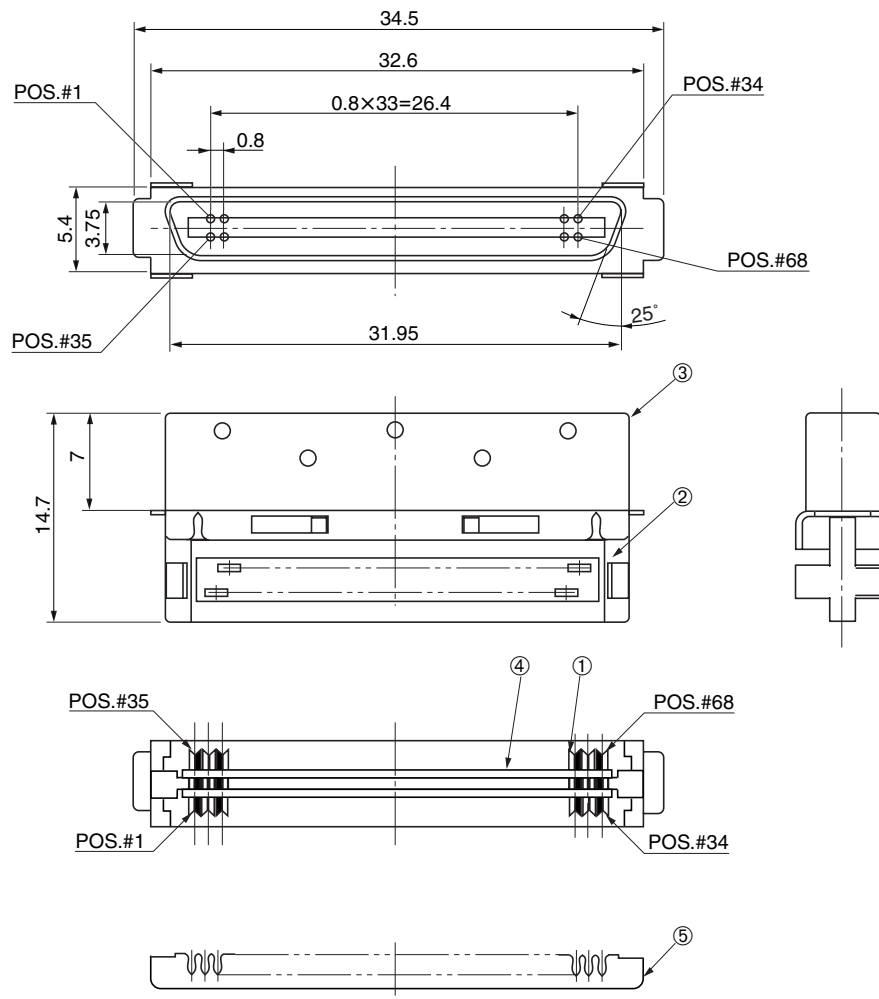
ANSI/SFF8441



● Configuration of product Part No.

HDRA- E 68 MA+

- ① Series name
 ② No. of contacts: 68
 ③ Type of contact
 M: IDC type, male
 ④ Compatible cable
 A: AWG#30 (7/0.1), dia. 0.58 mm



● Components

①	Contacts
②	Insulator
③	Shell
④	Spacer
⑤	Cable housing

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

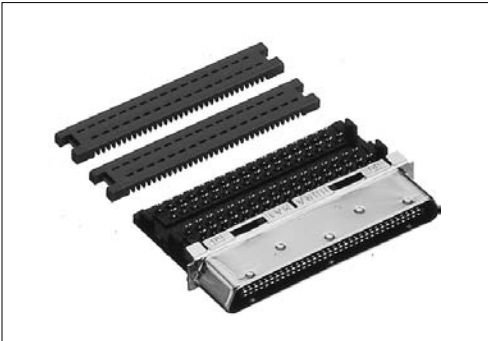
IDC type male connector for cable
 HDRA-E68M()1+

For cable

IDC

RoHS

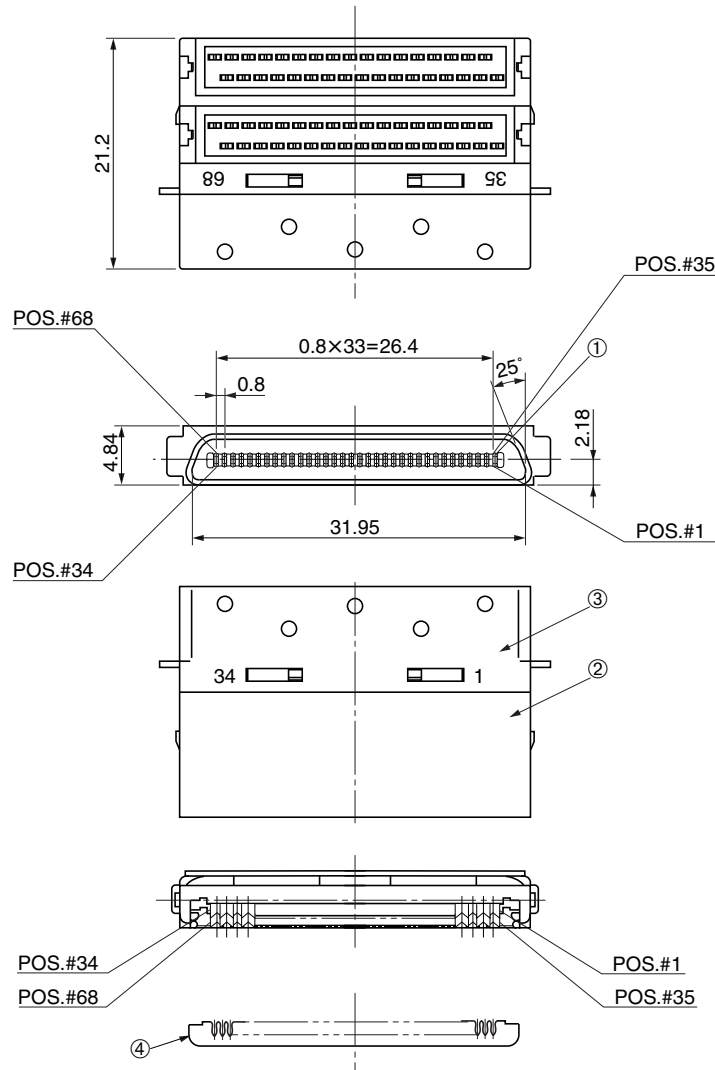
ANSI/SFF8441



● Configuration of product Part No.

HDRA- E 68 M () 1+

- ① Series name
- ② No. of contacts: 68
- ③ Type of contact
M: IDC type, male
- ④ Compatible cable
Blank: AWG#30 (1/0.254), dia. 0.58 mm
A : AWG#30 (7/0.1), dia. 0.58 mm
C : AWG#34 (7/0.064), dia. 0.44 mm
- ⑤ IDC method
1: One side IDC



● Components

①	Contacts
②	Insulator
③	Shell
④	Cable housing

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

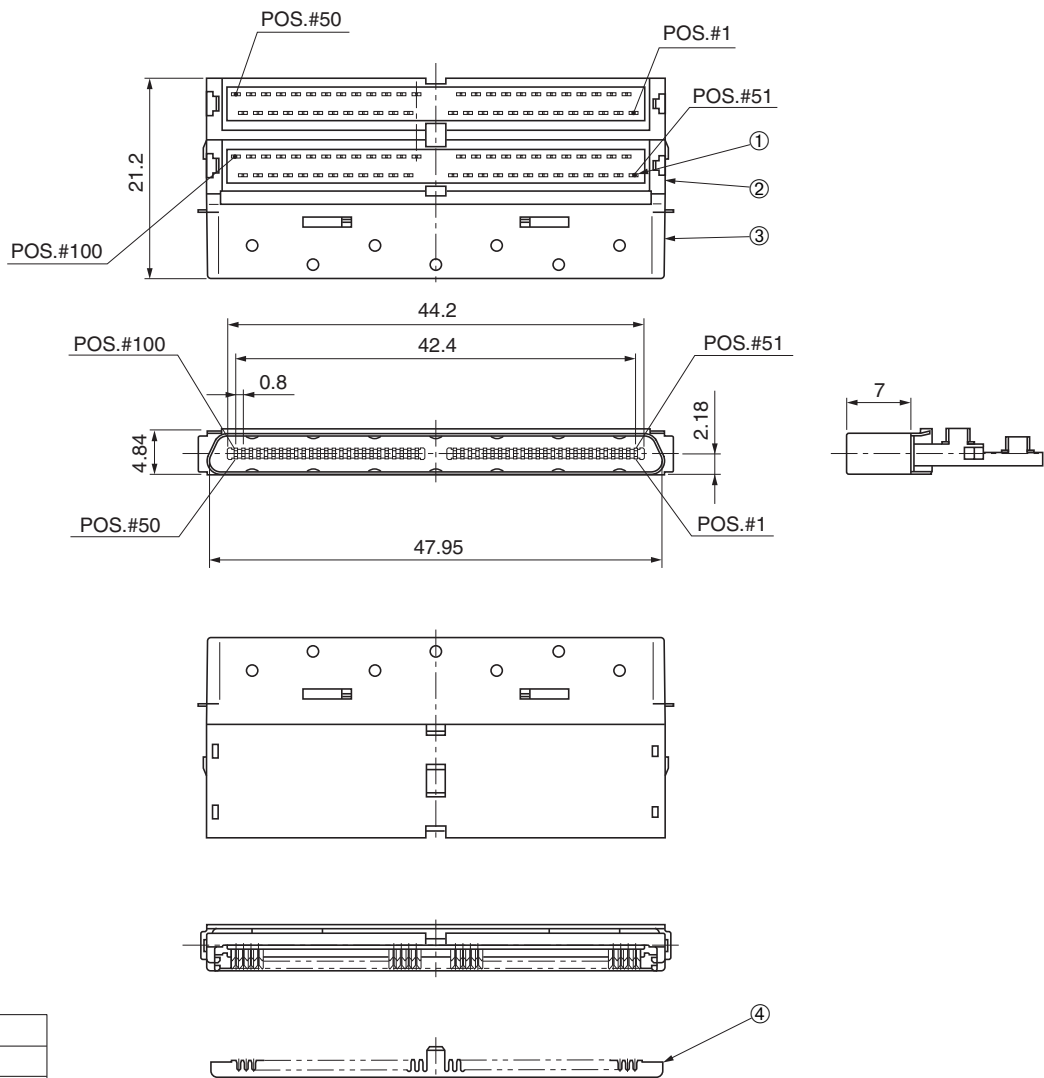
RoHS



● Configuration of product Part No.

HDRA- E 100 M () 1+

- ① Series name
- ② No. of contacts: 100
- ③ Type of contact
M: IDC type, male
- ④ Compatible cable
Blank: AWG#30 (1/0.254), dia. 0.58 mm
A : AWG#30 (7/0.1), dia. 0.58 mm



● Components

①	Contacts
②	Insulator
③	Shell
④	Cable housing

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)

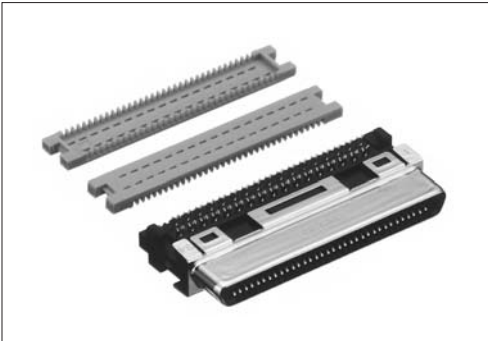
IDC type female connector for cable
HDRA-E68FAG1+

For cable

IDC

RoHS

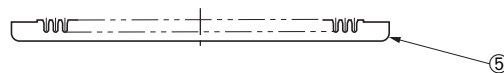
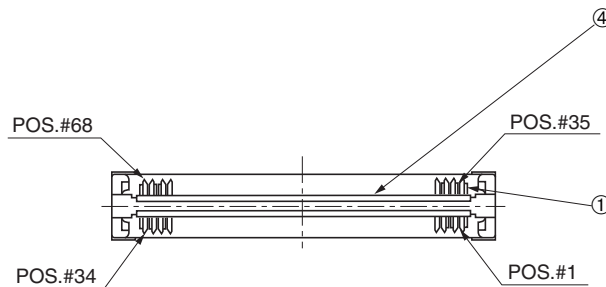
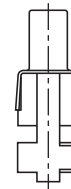
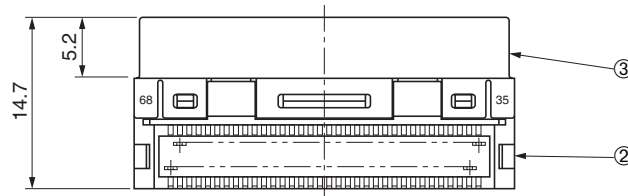
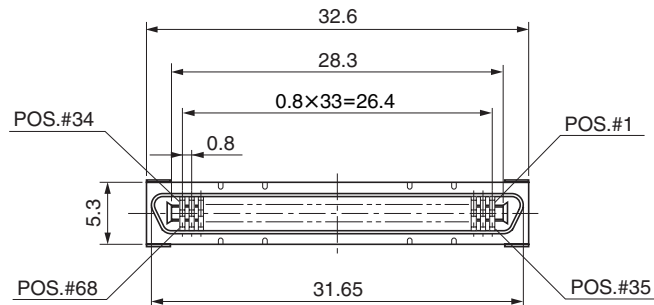
ANSI/SFF8441



● Configuration of product Part No.

HDRA- E 68 F A G1+

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



● Components

①	Contacts
②	Insulator
③	Shell
④	Spacers
⑤	Cable housing

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



Straddle SMT type male connector for PCB HDRA-E68MT+

For PCB

Straddle SMT

ANSI/SFF8441

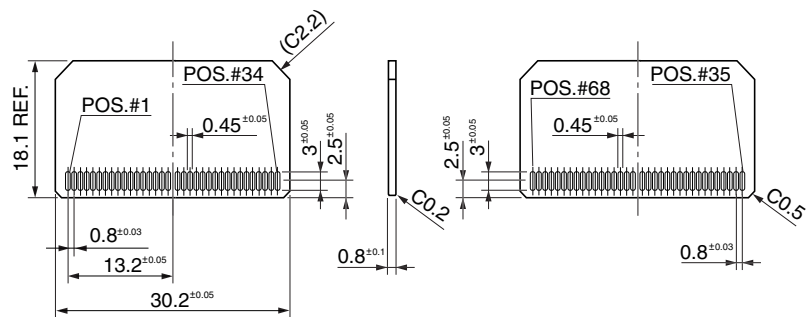
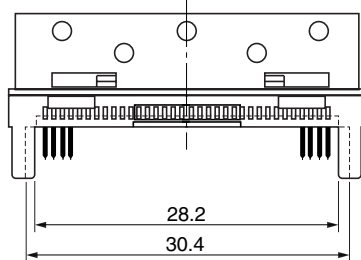
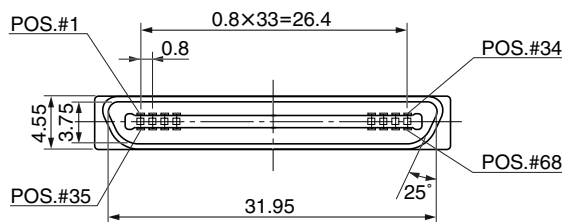
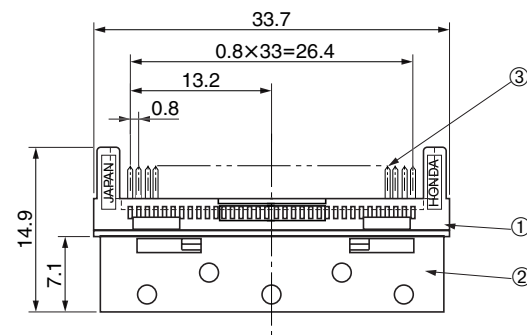
RoHS



● Configuration of product Part No.

HDRA- E 68 MT+

- ① Series name
 ② No. of contacts: 68
 ③ Type of contact
 MT: Straddle SMT type, male



Recommended PCB layout
t=0.8mm

● Components

- | | |
|---|-----------|
| ① | Insulator |
| ② | Shell |
| ③ | Contacts |

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

Straight through hole type male connector for PCB

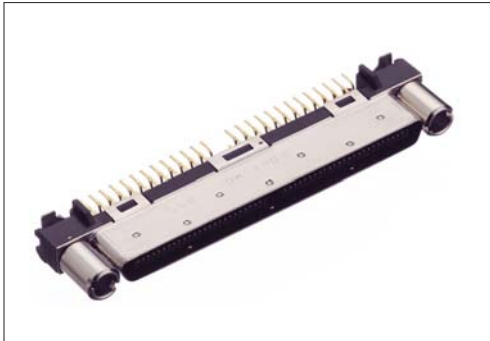
HDRA-EC100MDT-()+

For PCB

Straight Through hole

RoHS

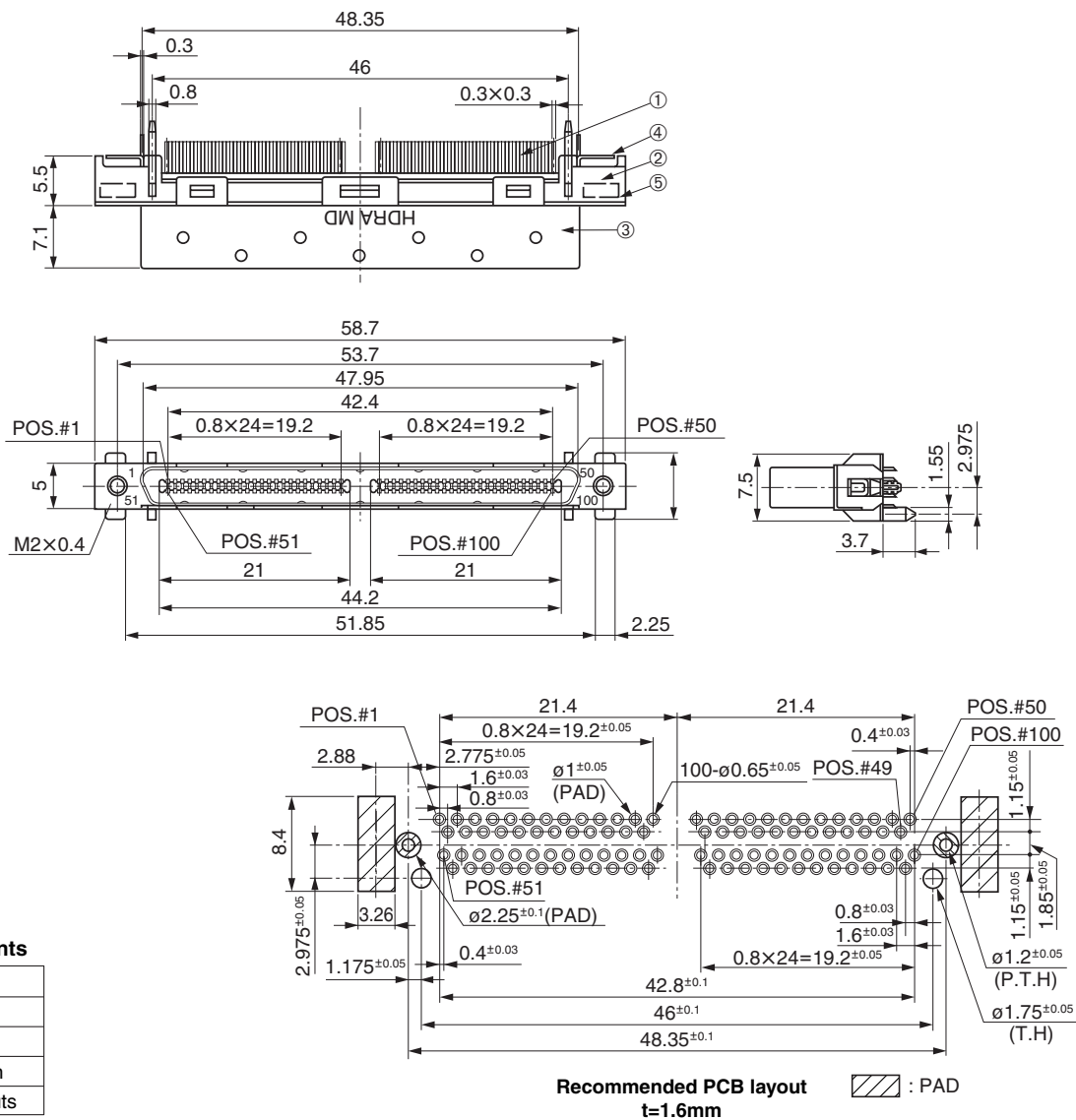
EMI shielded



● Configuration of product Part No.

HDRA- EC 100 MD T- ()+

- ① Series name
- ② No. of contacts: 100
- ③ Type of contact
MD: Straight through hole type, male
- ④ With ground contact
Blank: None
GP : Provided with guide hardware.
(The guide pin is required for the mating connector.)
- ⑤ Presence of guide metal fittings



● Components

①	Contacts
②	Insulator
③	Shell
④	Hold down
⑤	Square nuts

Mating connector: HDR series female connector

Straight through hole type female connector for PCB
HDRA-EC68FDT+

For PCB

Straight Through hole

RoHS

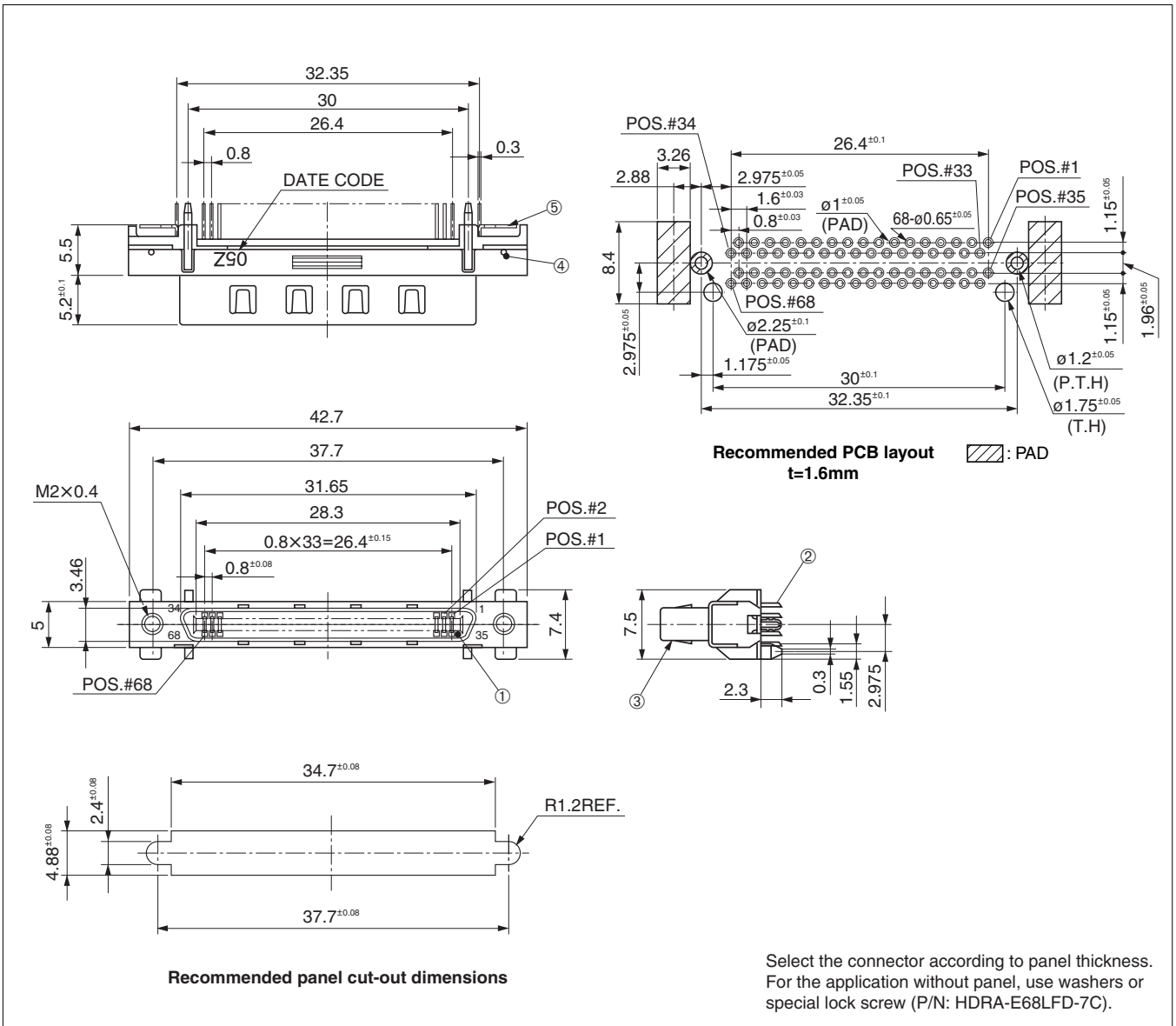
EMI shielded



● Configuration of product Part No.

HDRA- EC 68 FD T+

- ① Series name
- ② No. of contacts: 68
- ③ Type of contact
FD: Straight through hole type, female
- ④ With hold downs



Mating connector: HDRA series male connector

Straight through hole type female connector for PCB HDRA-EC100FDT+

For PCB

Straight Through hole

RoHS

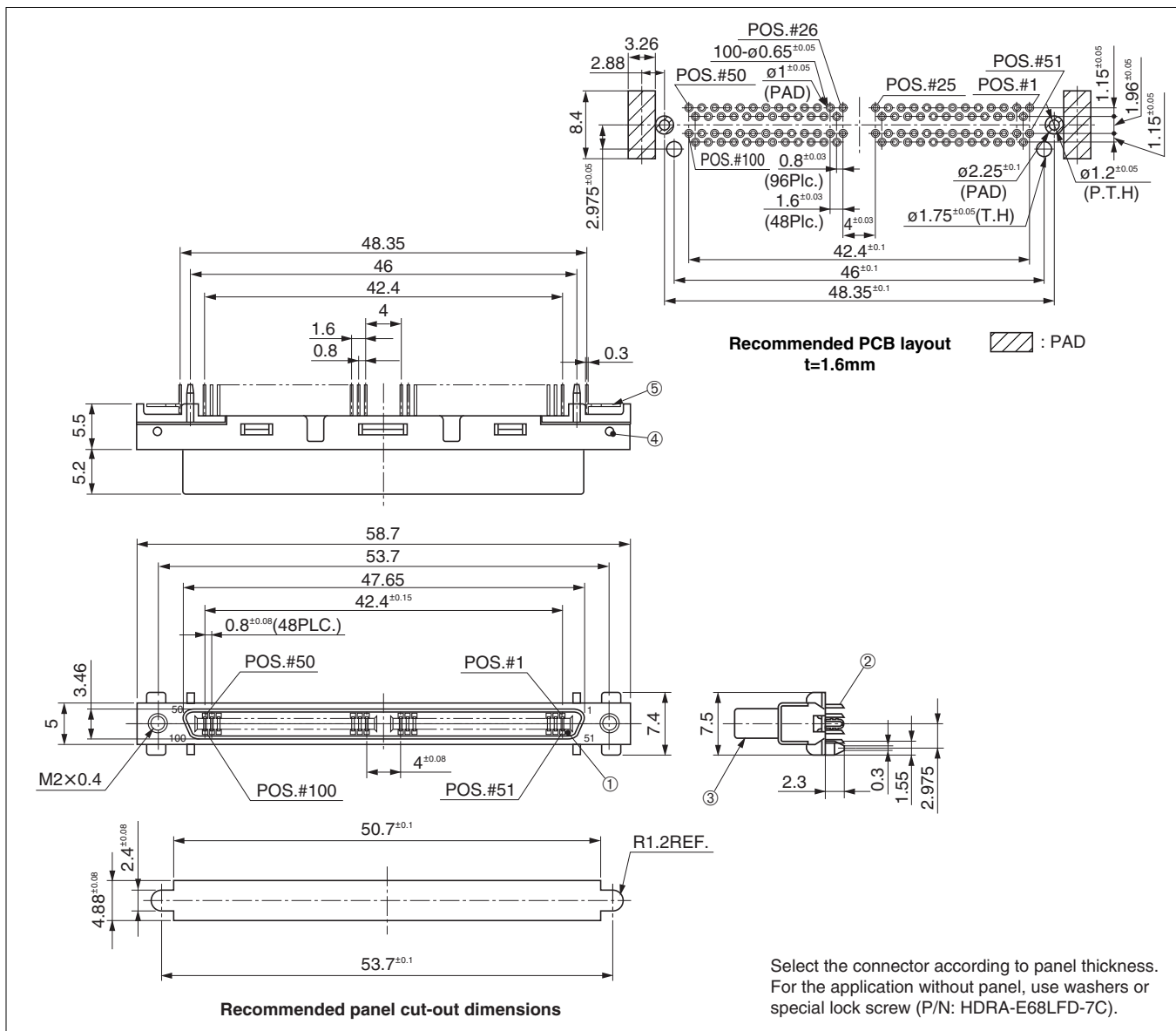
EMI shielded



● Configuration of product Part No.

HDRA- EC 100 FD T+

- ① Series name
- ② No. of contacts: 100
- ③ Type of contact
FD: Straight through hole type, female
- ④ With hold downs



Mating connector: HDRA series male connector

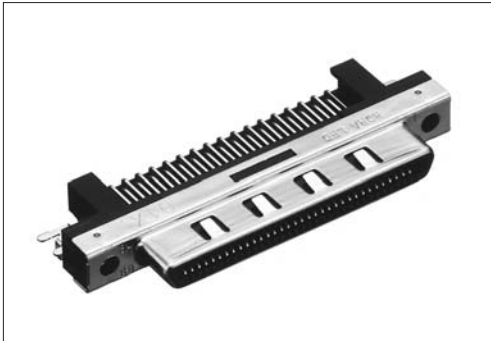
Right-angle through hole type female connector for PCB
 HDRA-E68LFD T-OM18+

For PCB

Right-angle Through hole

RoHS

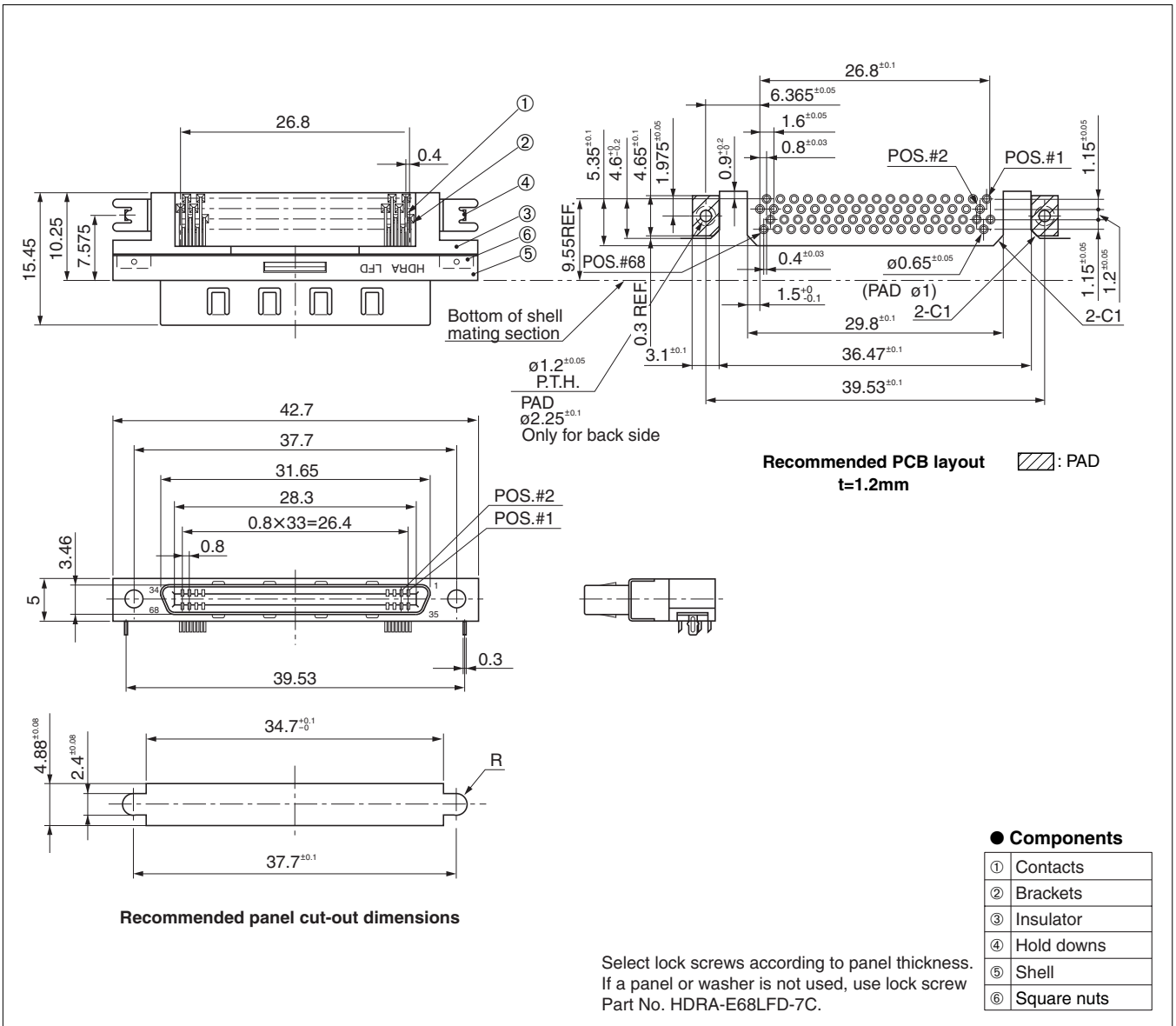
ANSI/SFF8441



● Configuration of product Part No.

HDRA- E 68 LFD T- OM18+

- ① Series name
- ② No. of contacts: 68
- ③ Type of contact
LFD: Right-angle through hole type, female
- ④ 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

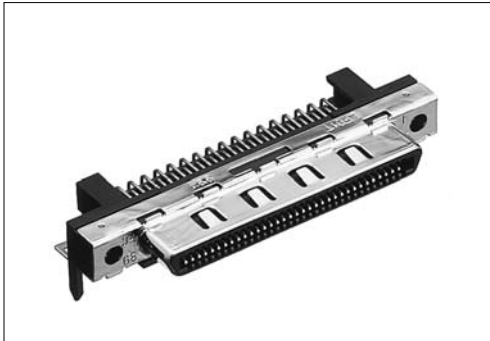
Right-angle through hole type female connector for PCB HDRA-E68LFD1T-()+

For PCB

Right-angle Through hole

RoHS

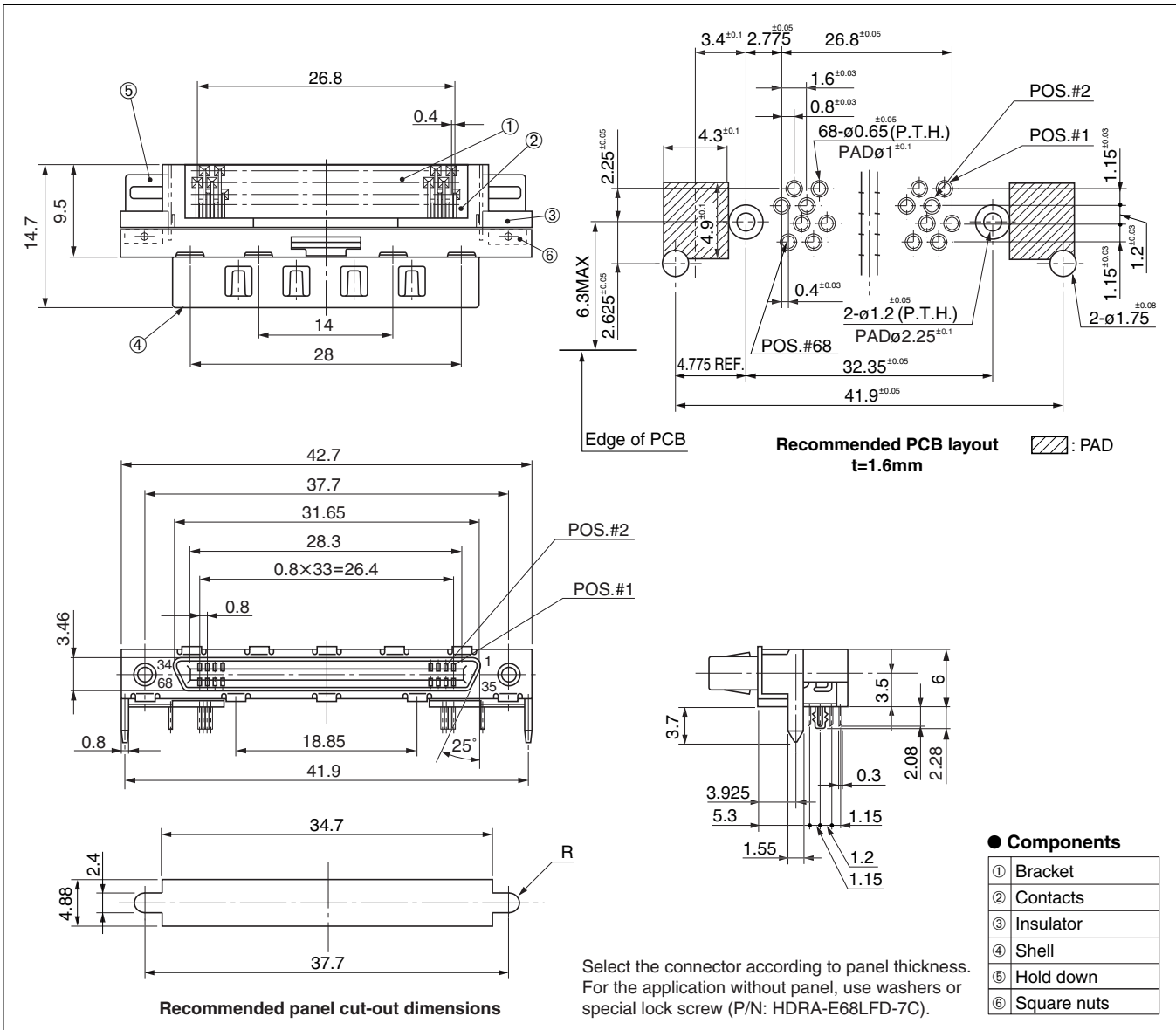
ANSI/SFF8441



● Configuration of product Part No.

HDRA- E 68 LFD 1 T -()+

- | | |
|--|---|
| ① Series name | ⑥ Lock screw |
| ② No. of contacts: 68 | Blank: None |
| ③ Type of contact:
LFD: Right-angle through hole type, female | SL : Provided
(Thickness of panel: 1.12mm) |
| ④ Provided with shell and panel contact blade | |
| ⑤ Provided with board lock pin | |



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

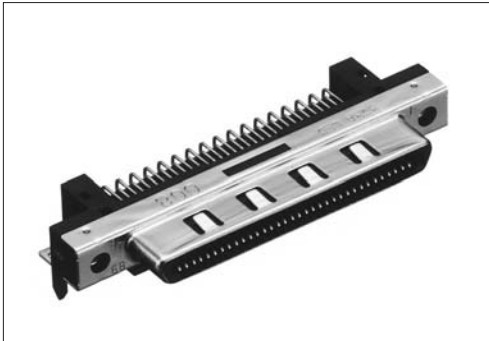
Right-angle through hole type female connector for PCB
 HDRA-EC68LFD T ()-()+

For PCB

Right-angle Through hole

RoHS

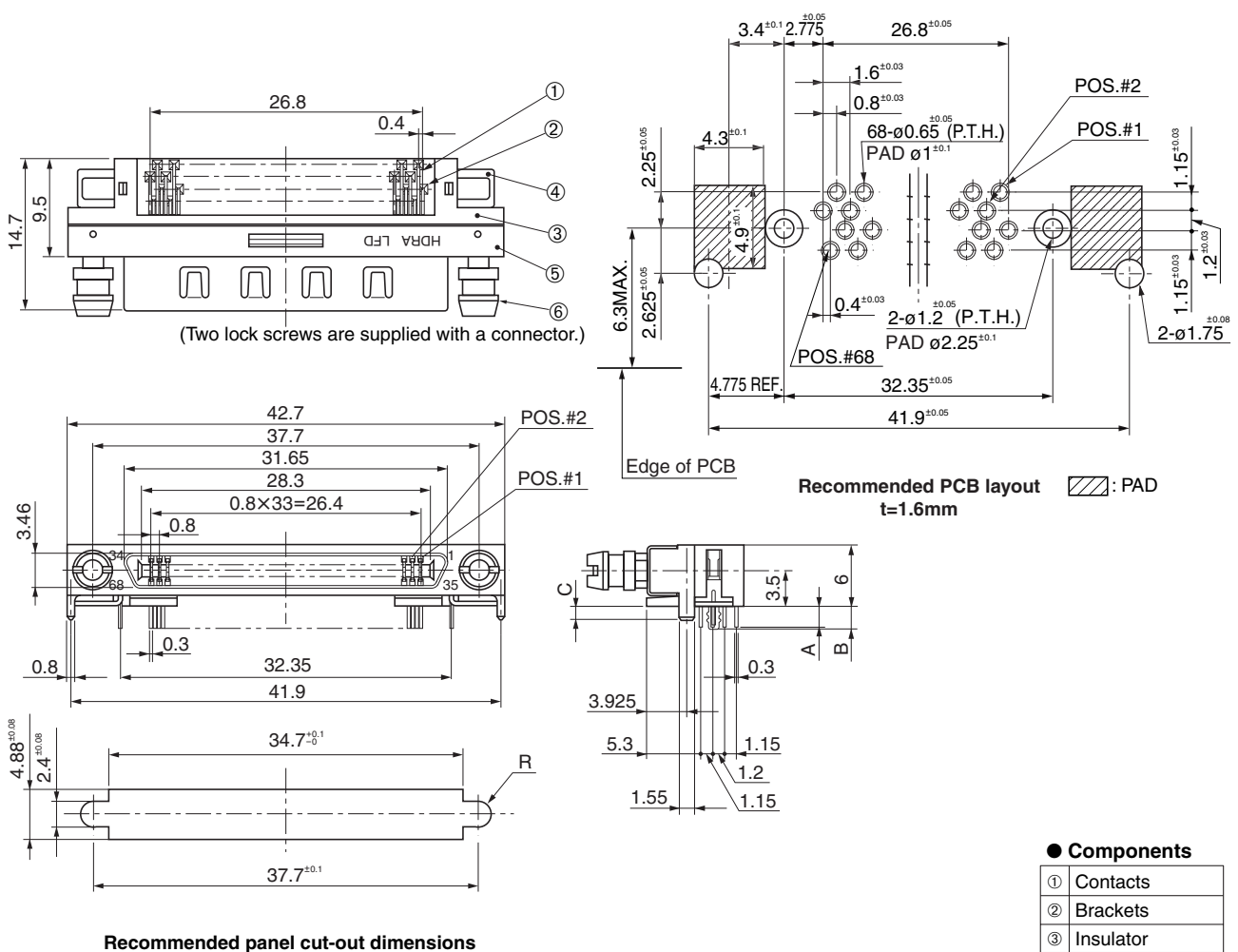
ANSI/SFF8441



● Configuration of product Part No.

HDRA- EC 68 LFD T ()-()+

- | | |
|--|---|
| ① Series name | S : A-2.08 mm contacts |
| ② No. of contacts: 68 | B-2.28 mm board lock pins |
| ③ Type of contact | C-2.3 mm location peg |
| LFD: Right-angle through hole type, female | 2 : A-2.08 mm contacts |
| ④ With board lock pin | B-2.28 mm board lock pins |
| ⑤ Length of contact, board lock pins or location peg | C-1.4 mm location peg |
| Blank: A-2.08 mm contacts | ⑥ Lock screws |
| : B-2.28 mm board lock pins | Blank : None |
| : C-3.7 mm location peg | SL : provided (Thickness of panel: 1.12 mm) |



Select the connector according to panel thickness.
 For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

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

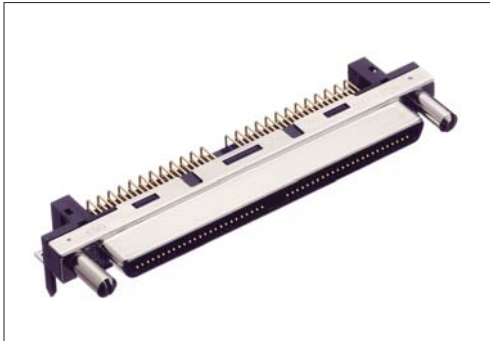
Right-angle through hole type female connector for PCB HDRA-EC100LFD T ()-()+

For PCB

Right-angle Through hole

RoHS

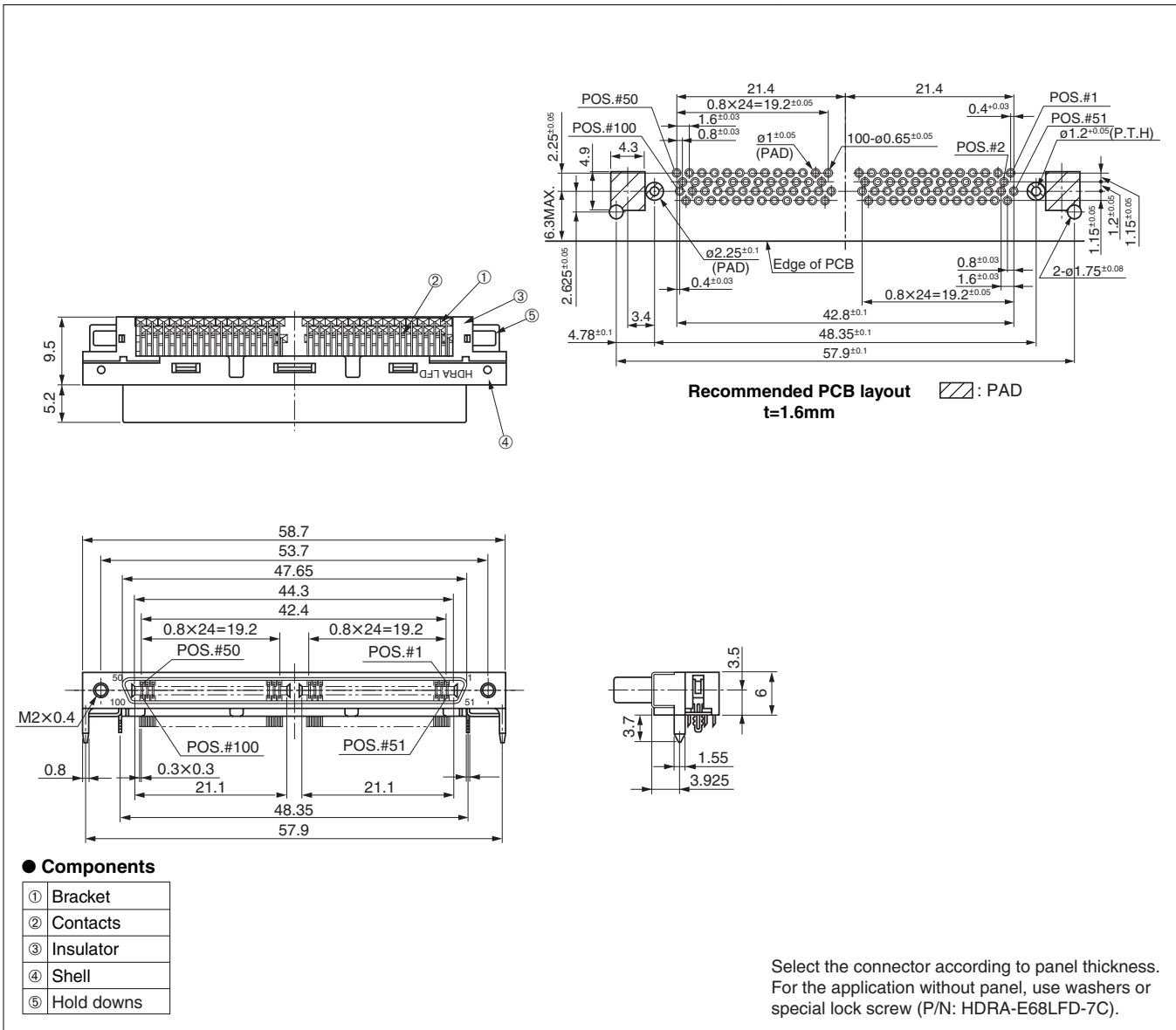
EMI shielded



● Configuration of product Part No.

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

- | | |
|--|----------------------------|
| ① Series name | ⑥ Lock screw |
| ② No. of contacts: 100 | Blank: None |
| ③ Type of contact | SL : Provided |
| LFD: Right-angle through hole type, female | (Panel thickness: 1.12 mm) |
| ④ With ground contact | GP : Guide pin |
| ⑤ Through hole length | |
| Blank: 2.08 mm | |
| 1 : 3.4 mm (under planning) | |



● Components

①	Bracket
②	Contacts
③	Insulator
④	Shell
⑤	Hold downs

Select the connector according to panel thickness.
For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

Mating connector: HDRA series male connector

Right-angle through hole type female connector for PCB
 HDRA-EA36LFD T-()+

For PCB

Right-angle Through hole

RoHS

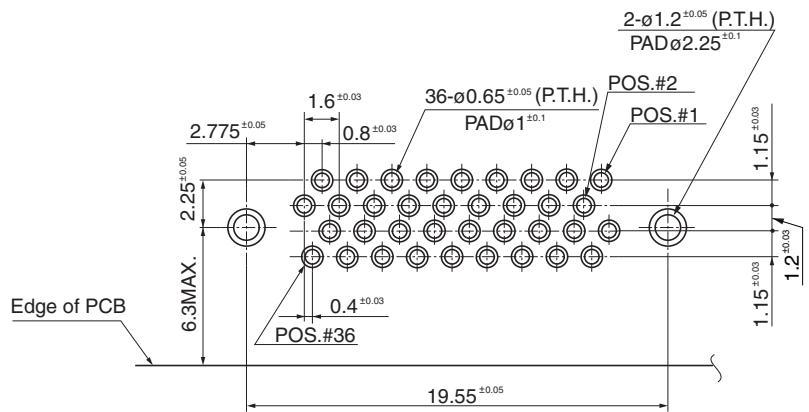
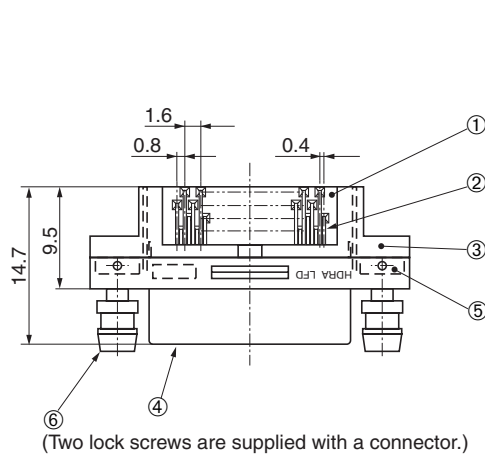
ANSI/SFF8441



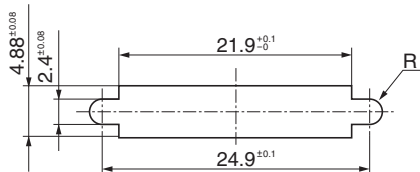
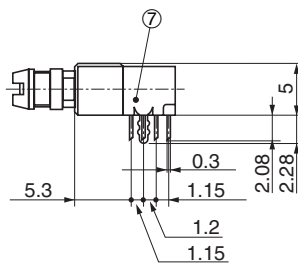
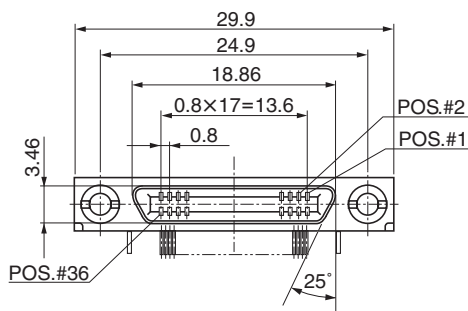
● Configuration of product Part No.

HDRA- EA 36 LFD T-()+

- ① Series name
- ② No. of contacts: 36
- ③ Type of contact
LFD: Right-angle through hole type, female
- ④ Provided with board lock mechanism
- ⑤ Lock screw
Blank: None
SL : Provided (Thickness of panel: 1.12 mm)



Recommended PCB layout
 t=1.6mm



Recommended panel cut-out dimensions

● Components

①	Bracket
②	Contacts
③	Insulator
④	Shell
⑤	Square nuts
⑥	Lock screw
⑦	Board lock pin

Select the connector according to panel thickness.
 For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

Mating connector: HDRA series IDC type male cable connector

Note● Jack screw is not available at present.

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

For PCB

Right-angle Through hole

RoHS

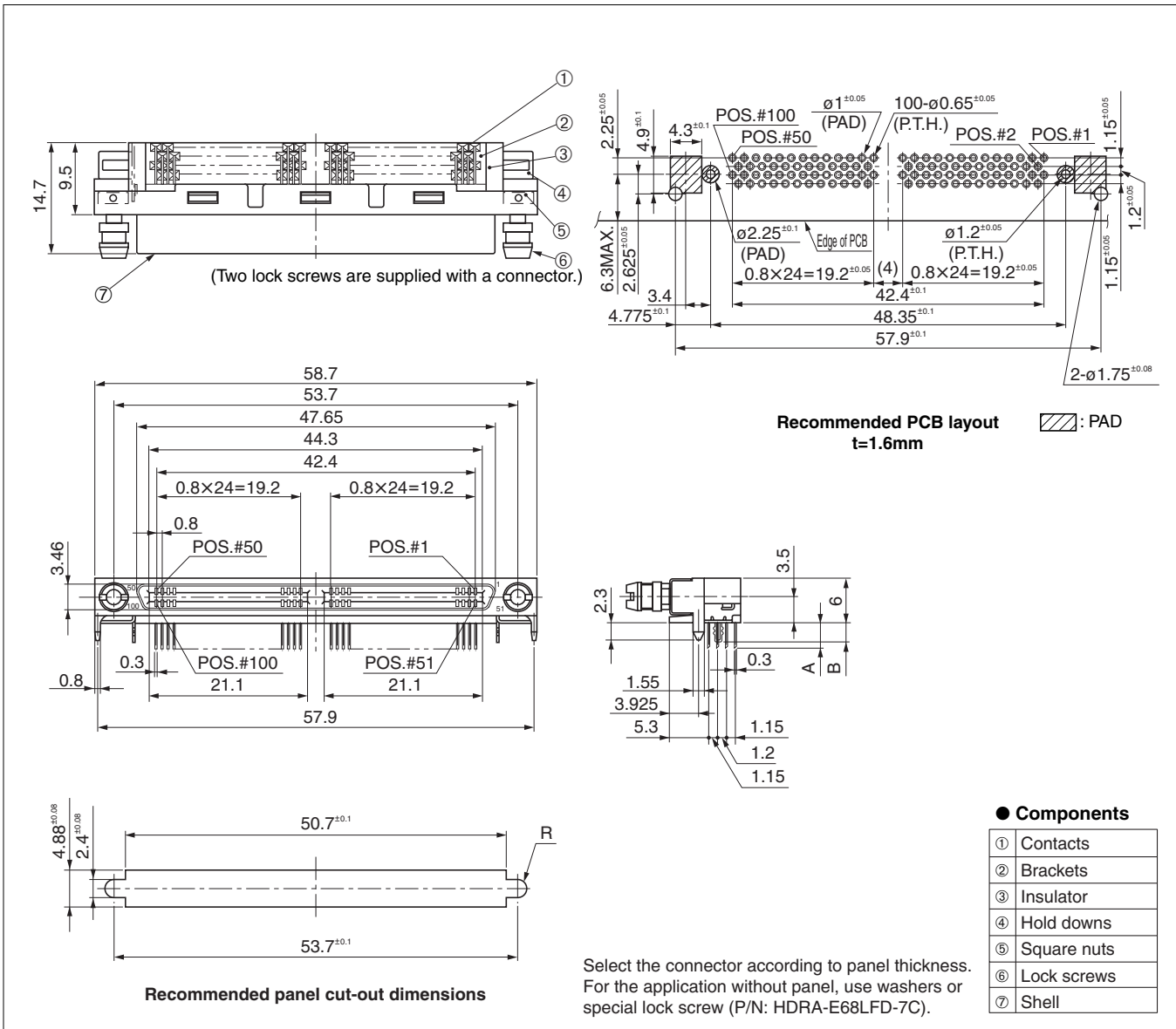
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● Configuration of product Part No.

HDRA- E 100 LFD T () - () +

- | | |
|---|--|
| ① Series name | ⑤ Length of contacts and board lock pins |
| ② No. of contacts: 100 | Blank: A-2.08 mm contacts
B-2.28 mm board lock pins |
| ③ Type of contact | 1 : A-3.4 mm contacts
B-2.6 mm board lock pins |
| LFD: Right-angle
through hole type, female | |
| ④ With board lock pin | ⑥ Lock screws |
| | Blank: None |
| | SL : provided (Thickness of panel: 1.12 mm) |



● Components

①	Contacts
②	Brackets
③	Insulator
④	Hold downs
⑤	Square nuts
⑥	Lock screws
⑦	Shell

Mating connector: HDRA series IDC type male connector

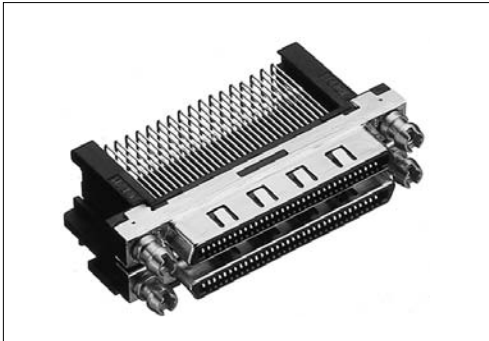
Right-angle through hole type female connector for PCB
 HDRA-E68W1LFD T-()+

For PCB

Right-angle Through hole

RoHS

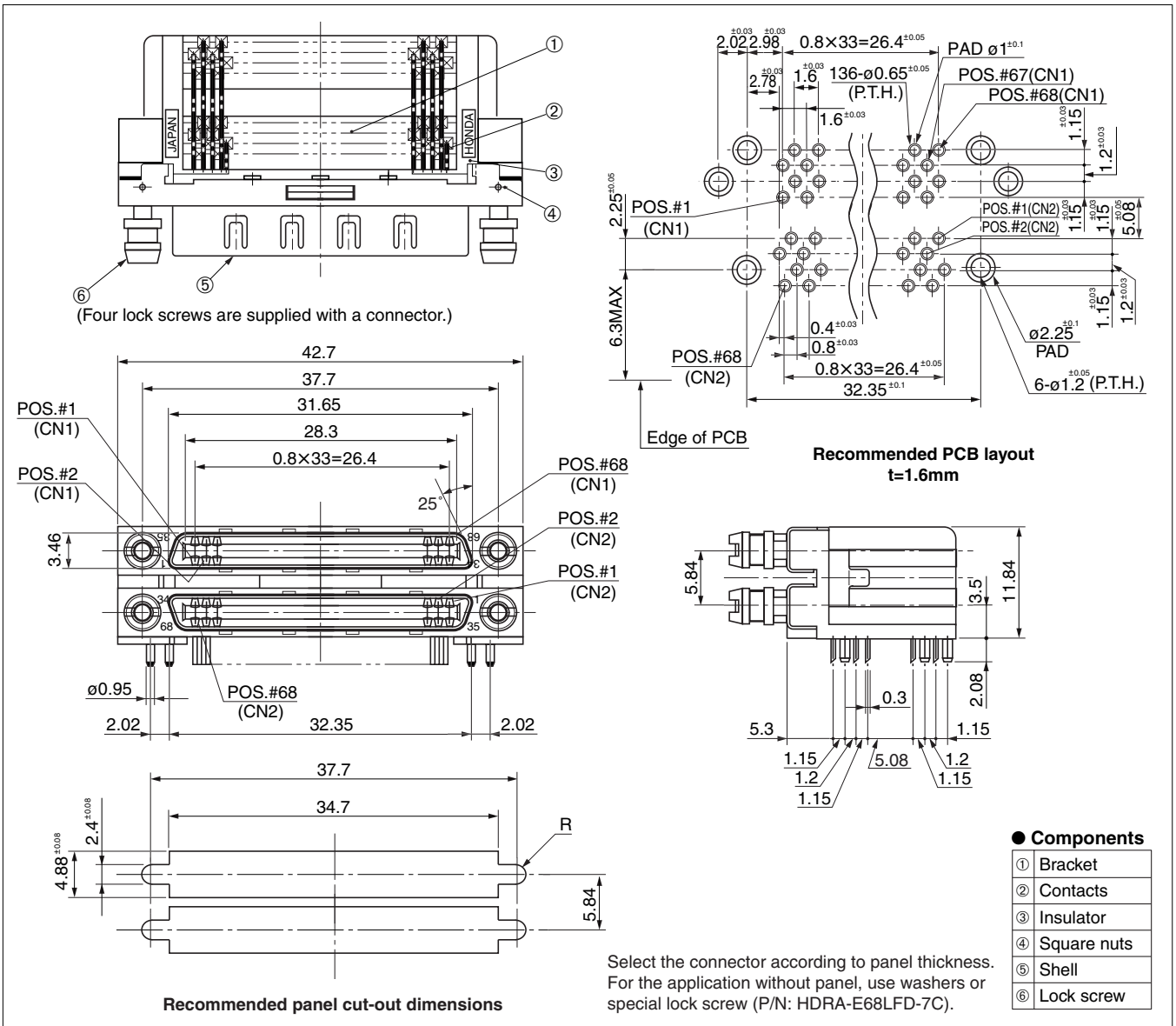
ANSI/SFF8441



● Configuration of product Part No.

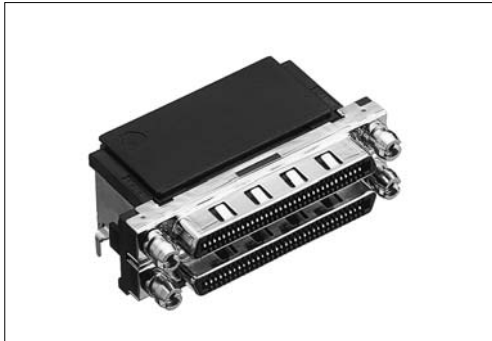
HDRA- E 68 W 1 LFD T- ()+

- ① Series name
- ② No. of contacts: 136 (68×2)
- ③ No. of stacks: 2
- ④ Type of contact
LFD: Right-angle through hole type, female
- ⑤ 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

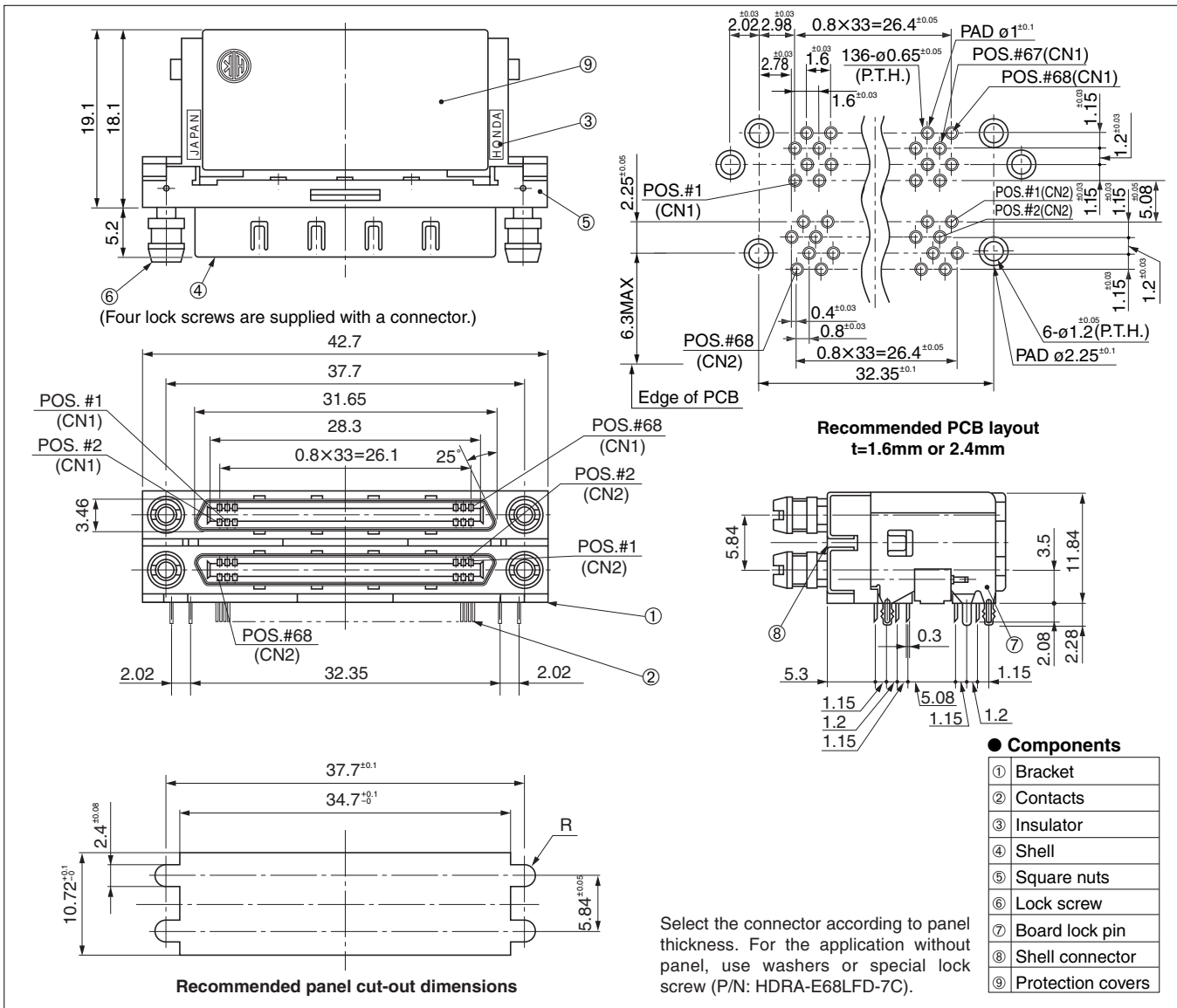
Right-angle through hole type female connector for PCB HDRA-E68W()LFD T1 E C-()+



● Configuration of product Part No.

HDRA- E 68 W () LFD T1 E C-()+

- | | |
|--|---|
| ① Series name | ⑥ Earth lock pin (provided with board lock mechanism) |
| ② No. of contacts: 136 (68×2) | ⑦ Provided with shell connection reinforcement |
| ③ No. of stacks: 2 | ⑧ Provided with protection cover for contacts and bends |
| ④ Length of contact, through hole
1: 2.08 (PCB: 1.6 mm thick)
2: 3.4 (PCB: 2.4 mm thick) | ⑨ Lock screw |
| ⑤ Type of contact
LFD: Right-angle through hole type, female | Blank: None |
| | SL : Provided (Thickness of panel: 1.12 mm) |



● Components

①	Bracket
②	Contacts
③	Insulator
④	Shell
⑤	Square nuts
⑥	Lock screw
⑦	Board lock pin
⑧	Shell connector
⑨	Protection covers

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

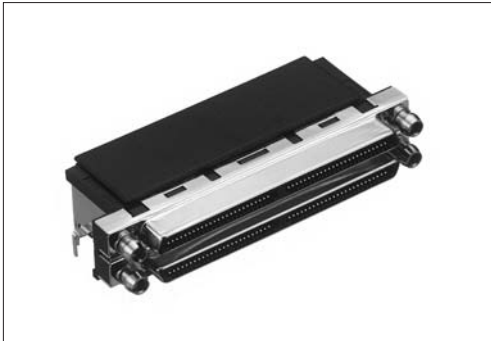
Right-angle through hole type female connector for PCB
 HDRA-E100W()LFDT1EC-()+

For PCB

Right-angle Through hole

RoHS

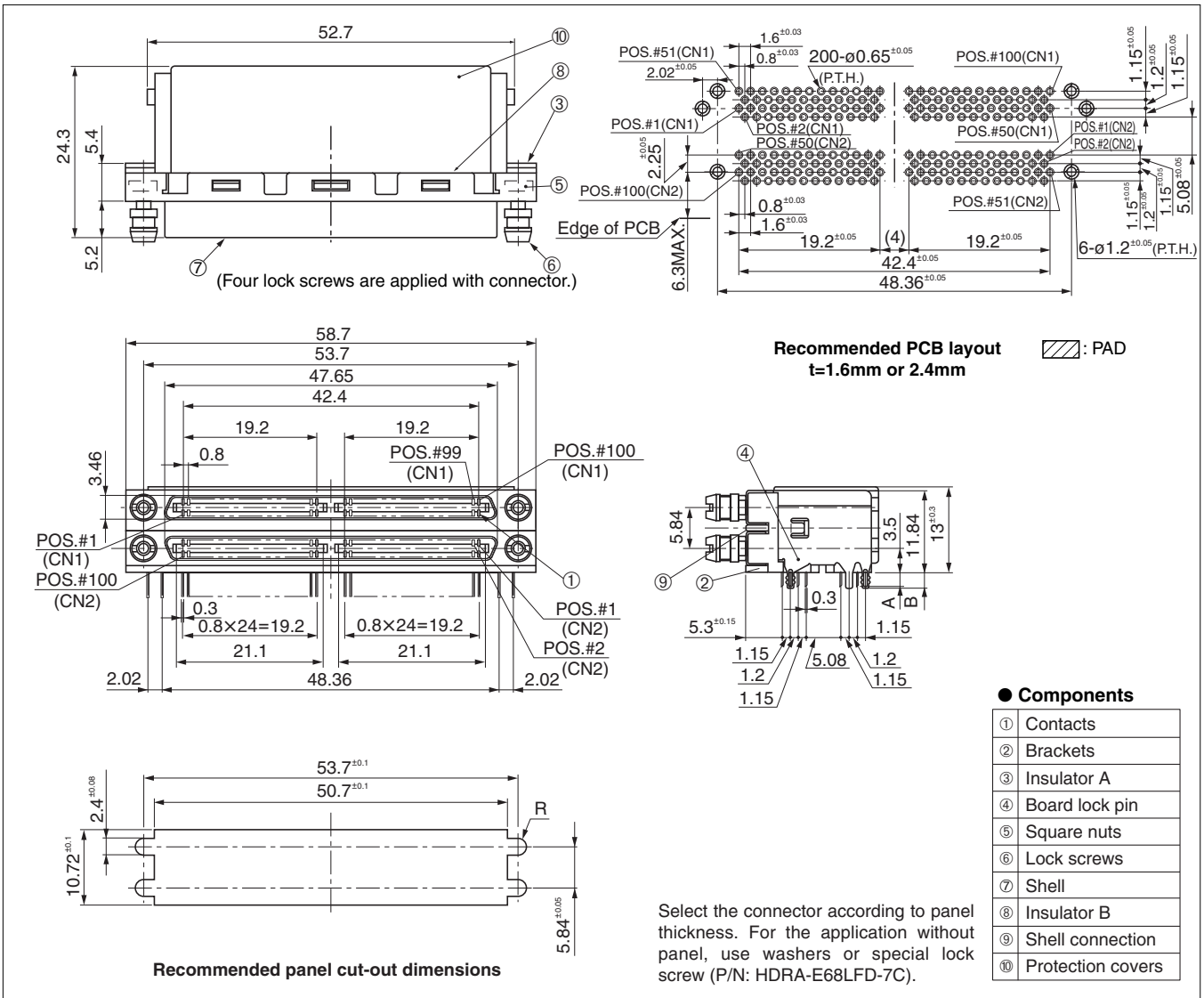
ANSI/SFF8441



● Configuration of product Part No.

HDRA- E 100 W () LFD T1 E C- ()+

- ① Series name
- ② No. of contacts: 100
- ③ W: Double stacked connector
- ④ Length of contacts or board lock pins
 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 : provided (Thickness of panel: 1.12 mm)
- ⑥ Earth lock pin (provided with board lock mechanism)
- ⑦ Provided with shell connection reinforcement
- ⑧ Provided with protection cover for contacts and bends
- ⑨ Lock screws
- Blank: None



Mating connector: HDRA series IDC type male connector

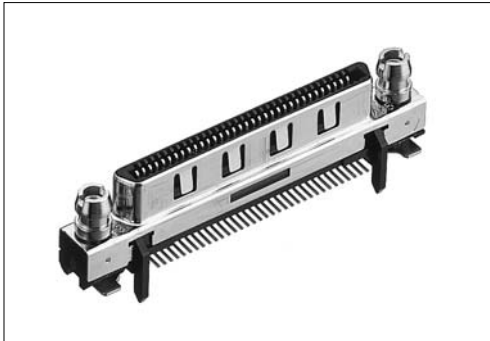
Straight SMT type female connector for PCB
HDRA-E68FYT-()+

For PCB

Straight SMT

RoHS

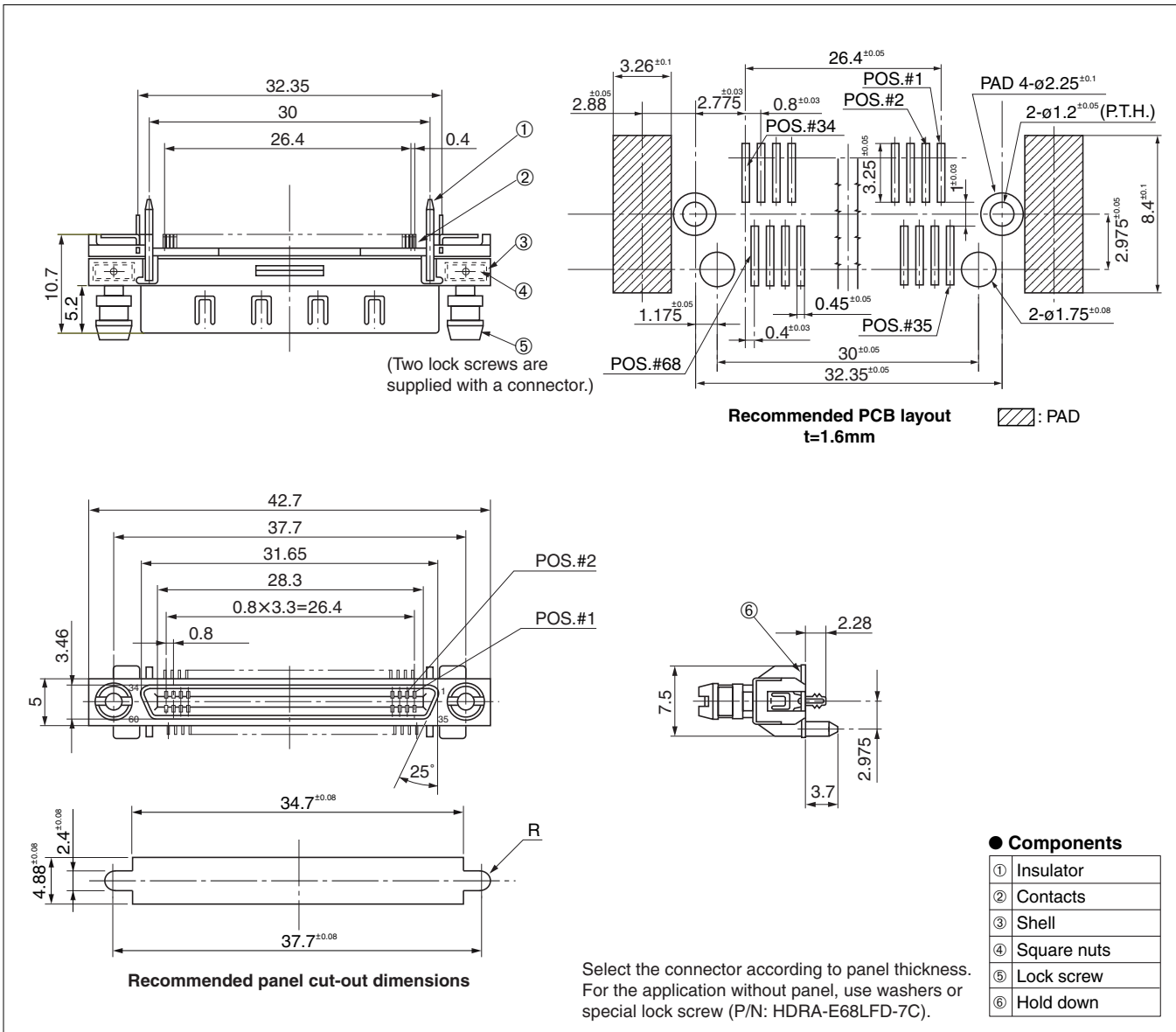
ANSI/SFF8441



● Configuration of product Part No.

HDRA- E 68 FY T- ()+

- ① Series name
- ② No. of contacts: 68
- ③ Type of contact
FY: Straight SMT type, female
- ④ 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, or straddle SMT type male connector

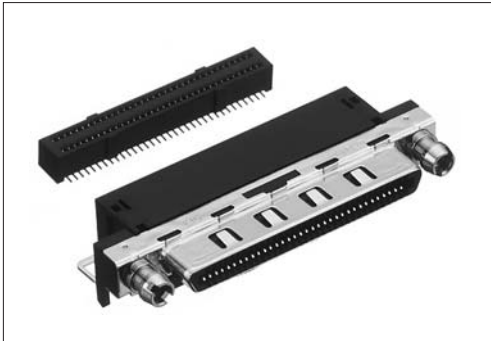
Right-angle SMT type female connector for PCB
 HDRA-ED68LFZGT()-()+

For PCB

Right-angle SMT

RoHS

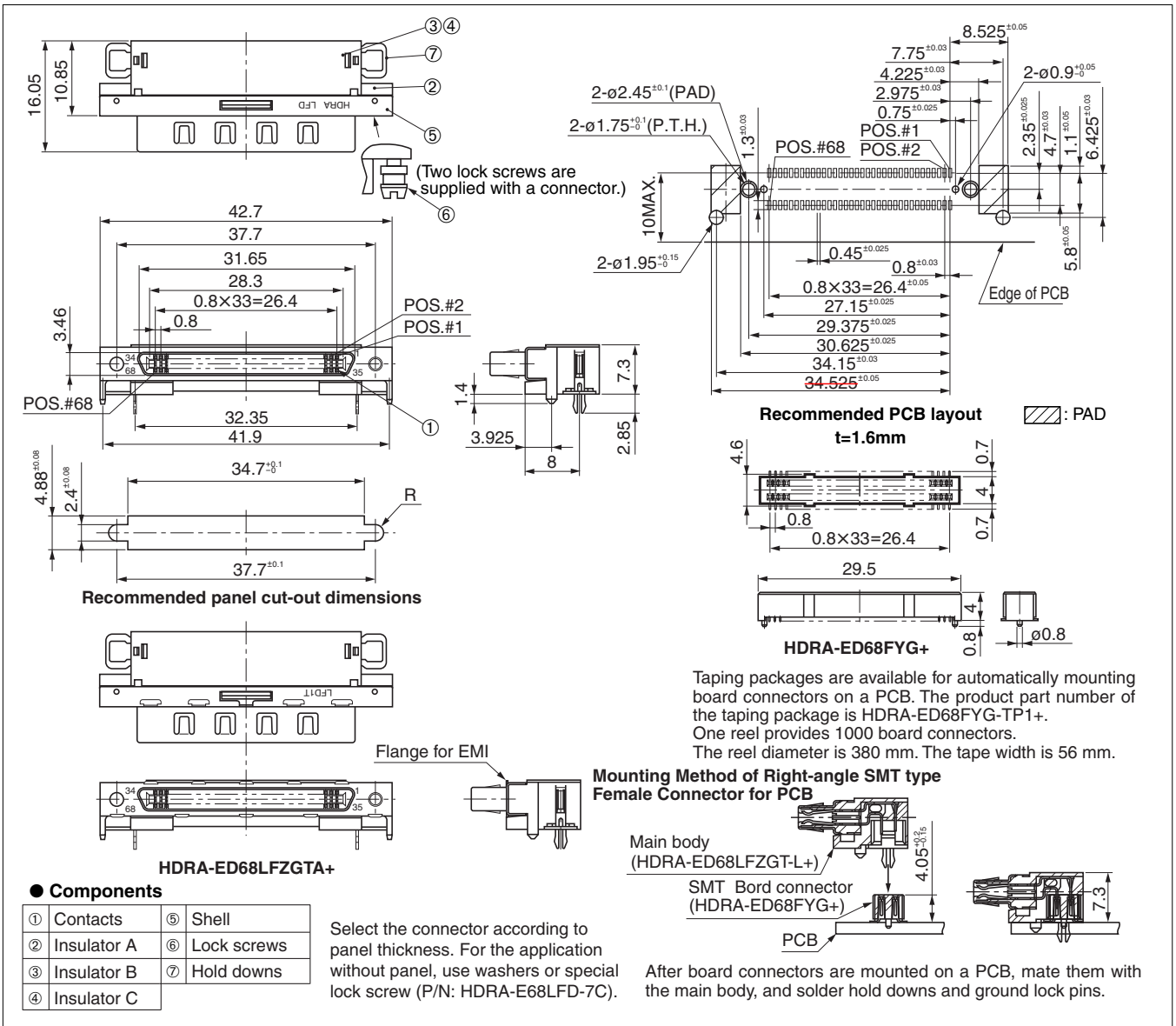
ANSI/SFF8441



● Configuration of product Part No.

HDRA- ED 68 LFZ GT () - () +

- | | |
|------------------------------------|-------------------------------|
| ① Series name | ⑥ Form of shell |
| ② No. of contacts: 68 | Blank : Standard shell |
| ③ Type of contact | A : Shell with flange for EMI |
| LFZ: Right-angle, female | ⑦ Lock screws |
| ④ Contact plating | L: Provided |
| G: 0.76 μm Gold plate | |
| ⑤ Ground lock pins with hold downs | |



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

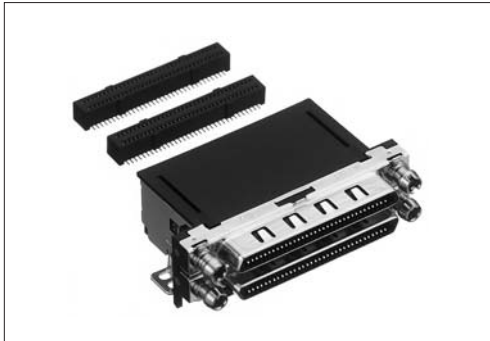
Right-angle SMT type female connector for PCB
 HDRA-ED136LFZGT()-()+

For PCB

Right-angle SMT

ANSI/SFF8441

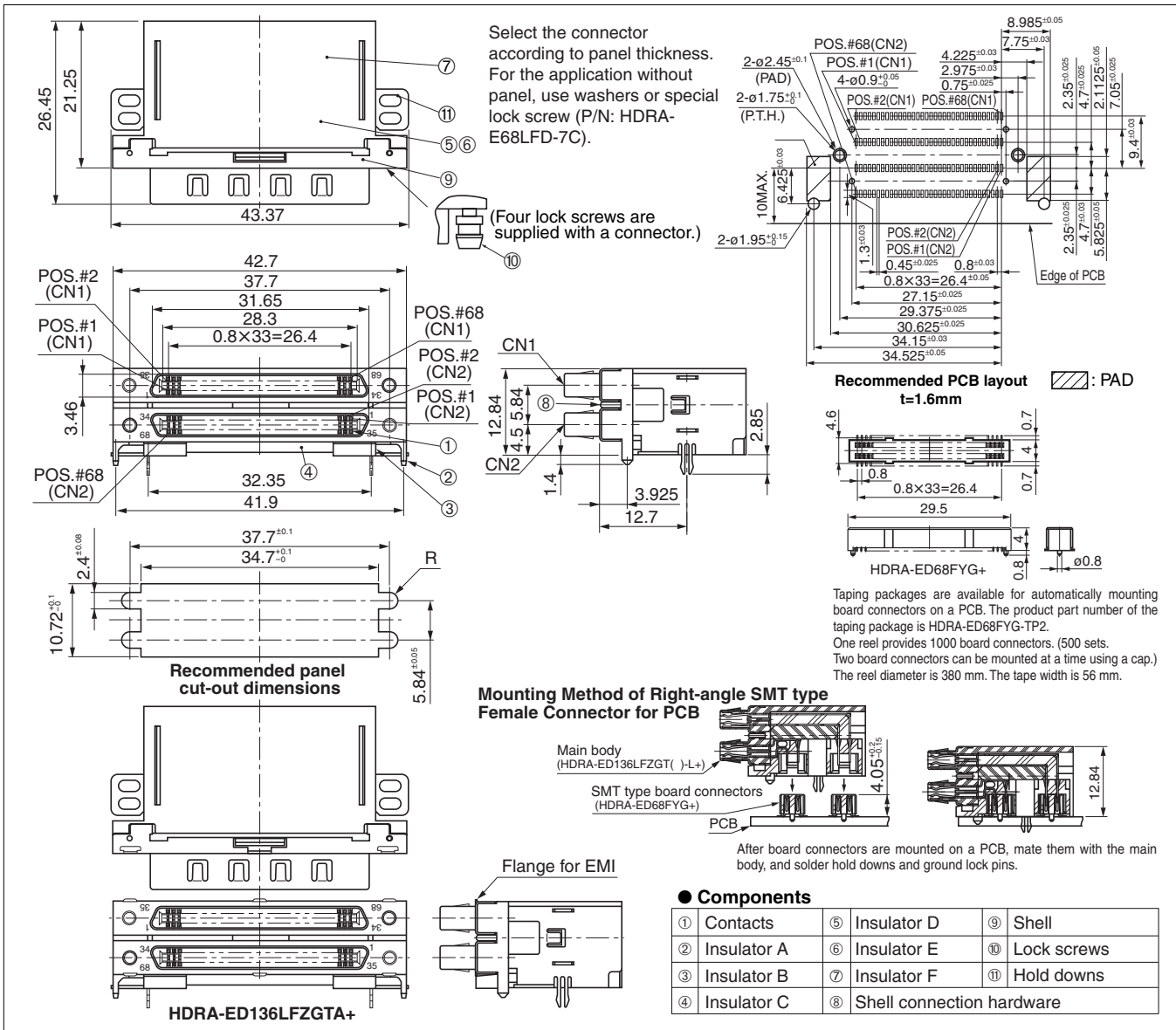
RoHS



● Configuration of product Part No.

HDRA- ED 136 LFZ G T () - () +

- ① Series name
- ② No. of contacts: 136
- ③ Type of contact
LFZ: Right-angle SMT type, female
- ④ Contact plating
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

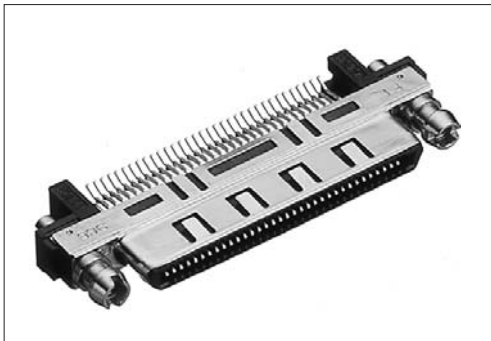
Straddle SMT type female connector for PCB HDRA-E68FT+

For PCB

Straddle SMT

ANSI/SFF8441

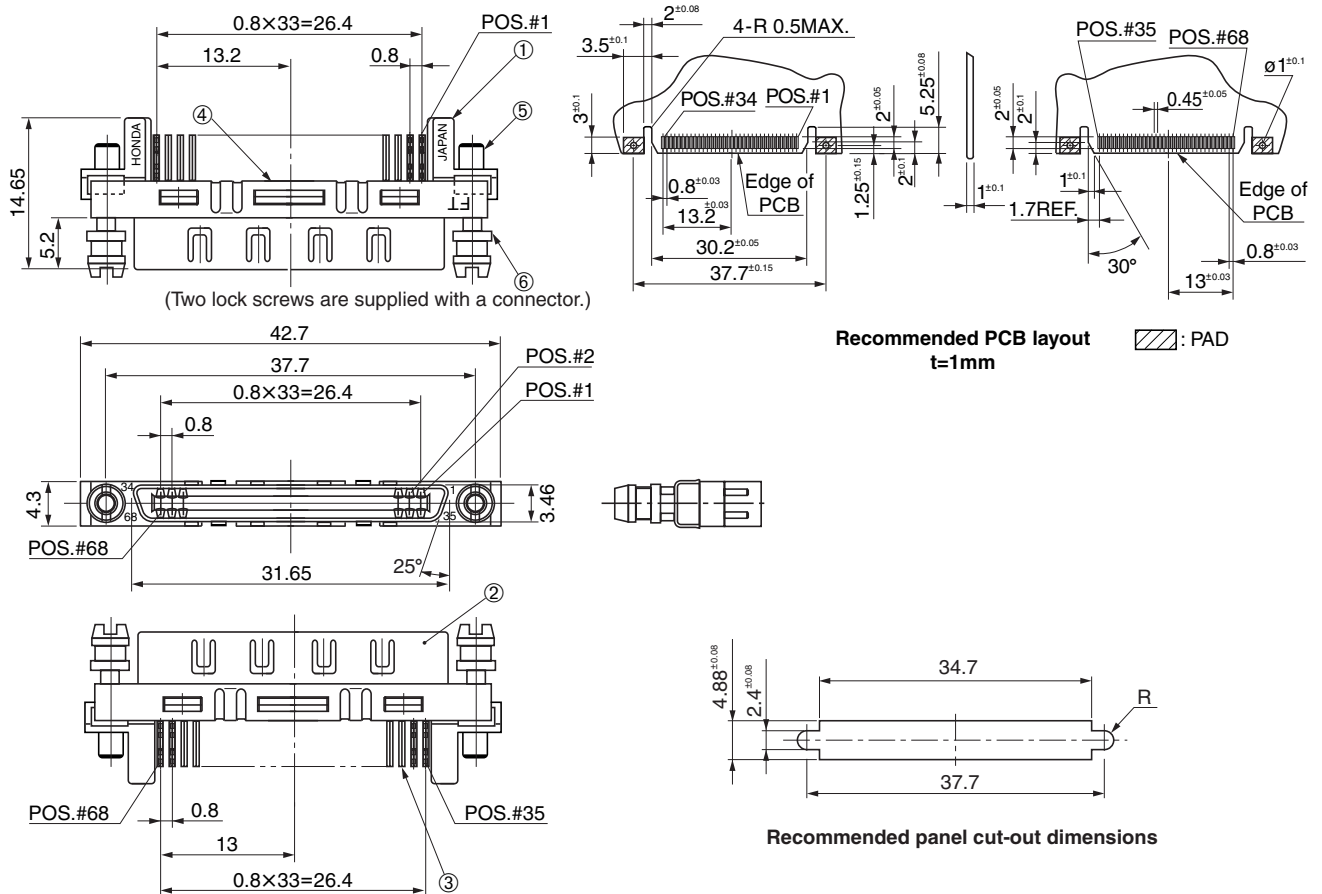
RoHS



● Configuration of product Part No.

HDRA- E 68 FT+

- ① Series name
- ② No. of contacts: 68
- ③ Type of contact
FT: Straddle SMT type, female



● Components

①	Insulator A
②	Shell
③	Contacts
④	Insulator B
⑤	Square nuts
⑥	Lock screw

Select the connector according to panel thickness.
For the application without panel, use washers or special lock screw (P/N: HDRA-E68LFD-7C).

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

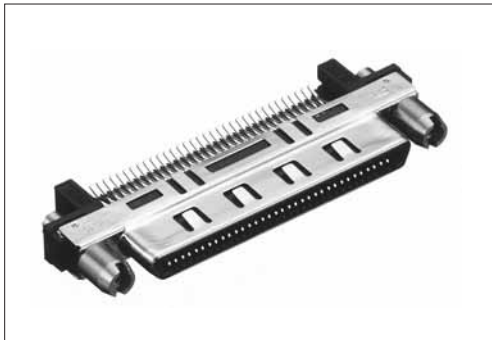
Straddle SMT type female connector for PCB
 HDRA-E68FT2-()+

For PCB

Straddle SMT

ANSI/SFF8441

RoHS

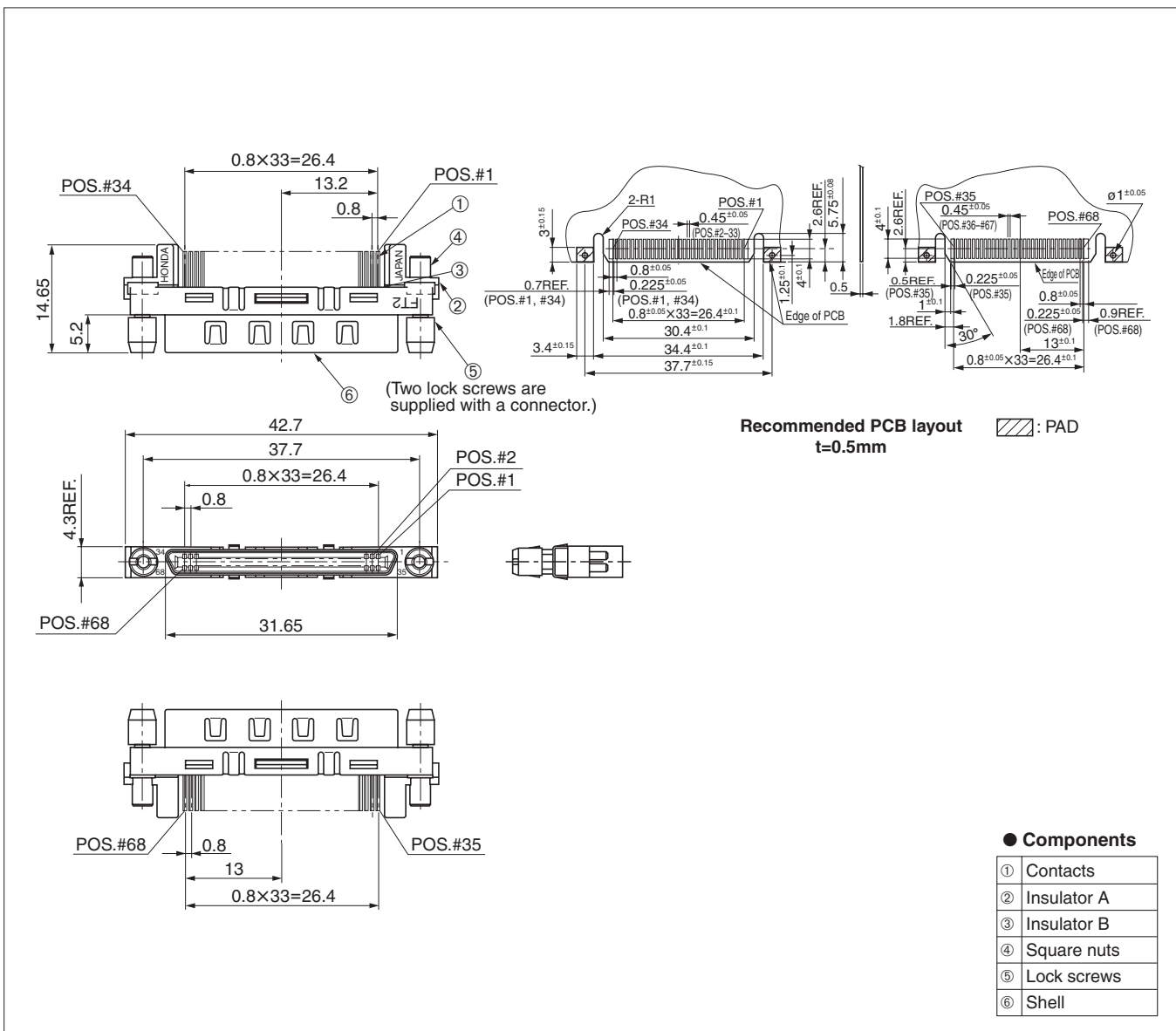


● Configuration of product Part No.

HDRA- E 68 FT 2- ()+

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 68
- ③ Type of contact
 FT: Straddle SMT type, female
- ④ PCB thickness: 0.5 mm
- ⑤ Lock screws
 Blank: None
 SL : provided



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

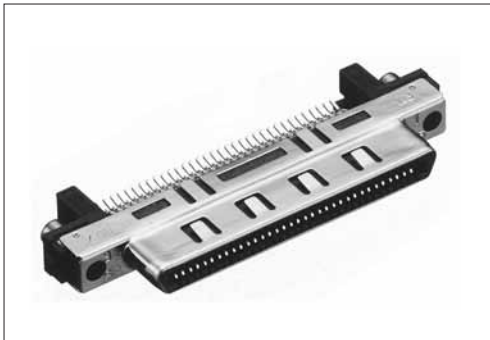
Straddle SMT type female connector for PCB
HDRA-E68FT2-OM06+

For PCB

Straddle SMT

ANSI/SFF8441

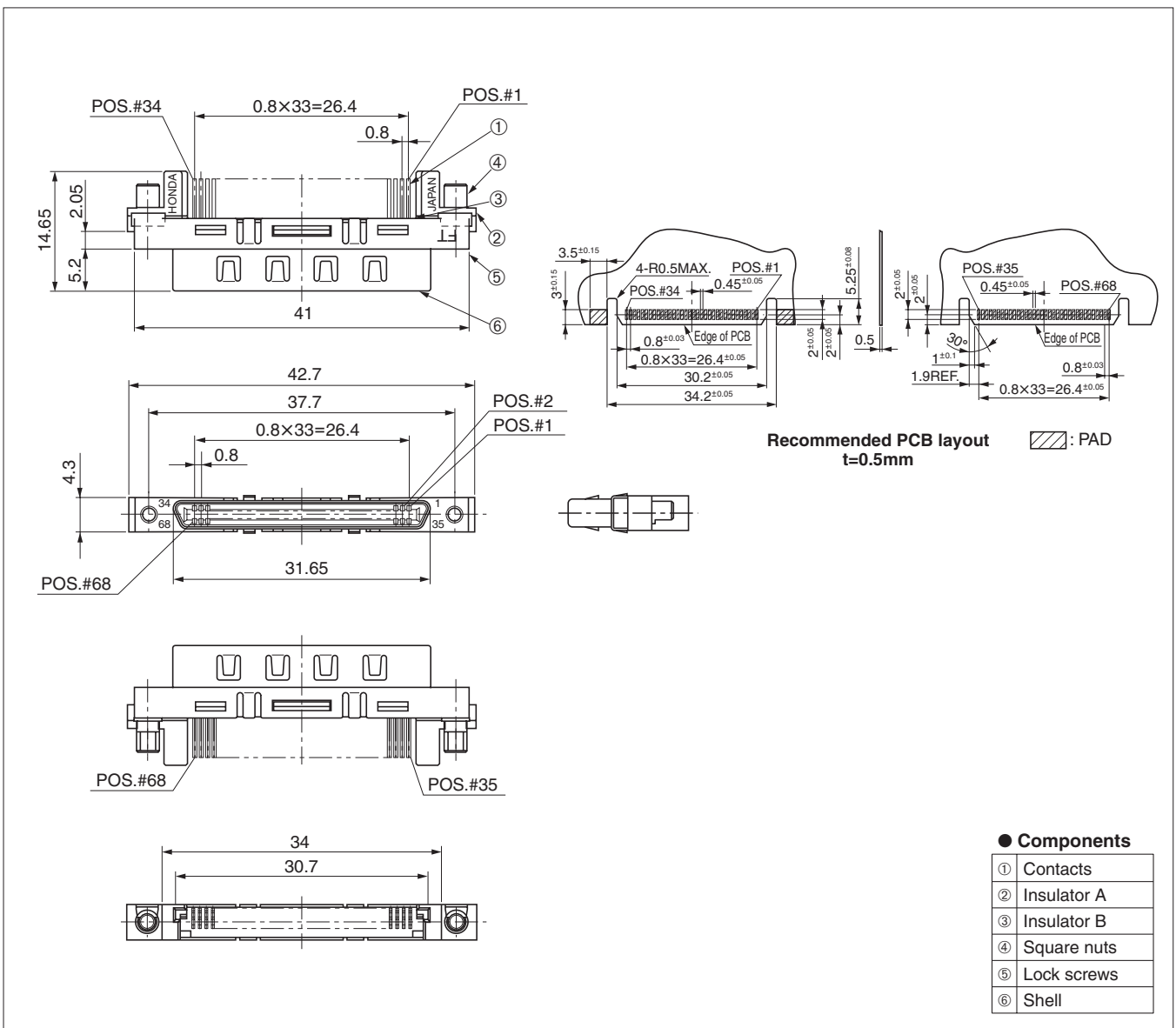
RoHS



● Configuration of product Part No.

HDRA- E 68 FT 2- OM06+

- ① Series name
 ② No. of contacts: 68
 ③ Type of contact
 FT: Straddle SMT type, female
 ④ PCB thickness: 0.5 mm
 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

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

Vertical housing

EMI shielded

ANSI/SFF8441

RoHS

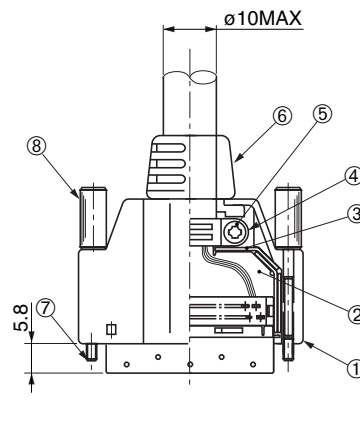
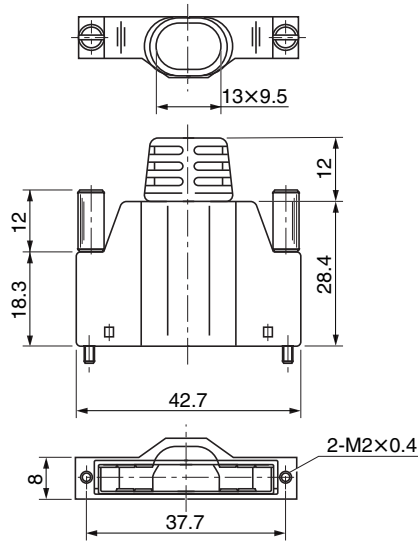


● Configuration of product Part No.

HDRA- E 68 LGKP ()

- 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.

HDRA-E68LGKPA

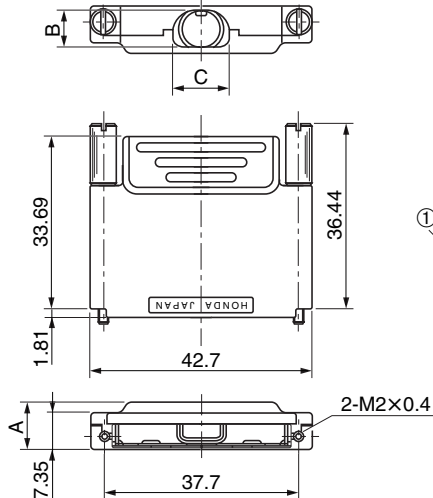


Thumb screw with plastic cap should be tightened by hand. For screw driver assembly use the product (P/N: HDRA-E68LGKPE3) with metal thumb screws attached.

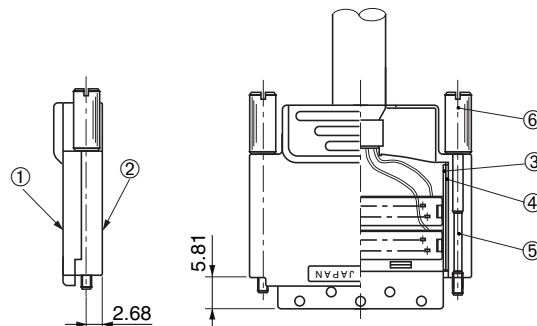
● Components

①	Cover
②	Inner shell A
③	Inner shell B
④	Cable clamp
⑤	Screw
⑥	Bushing
⑦	Thumb screw
⑧	Cap (plastic)

HDRA-E68LGKPC, LGKPE, LGKPF



The following figure shows HDRA-E68LGKPF.



Part No.	A	B	C
HDRA-E68LGKPC	11.5	9.5	10.5×9.5
HDRA-E68LGKPE	9.5	7.5	
HDRA-E68LGKPF	9	7.2	10.5

● Components

①	Cover A
②	Cover B
③	Shell A
④	Shell B
⑤	Thumb screw
⑥	Cap (plastic)

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

EMI filtered

RoHS

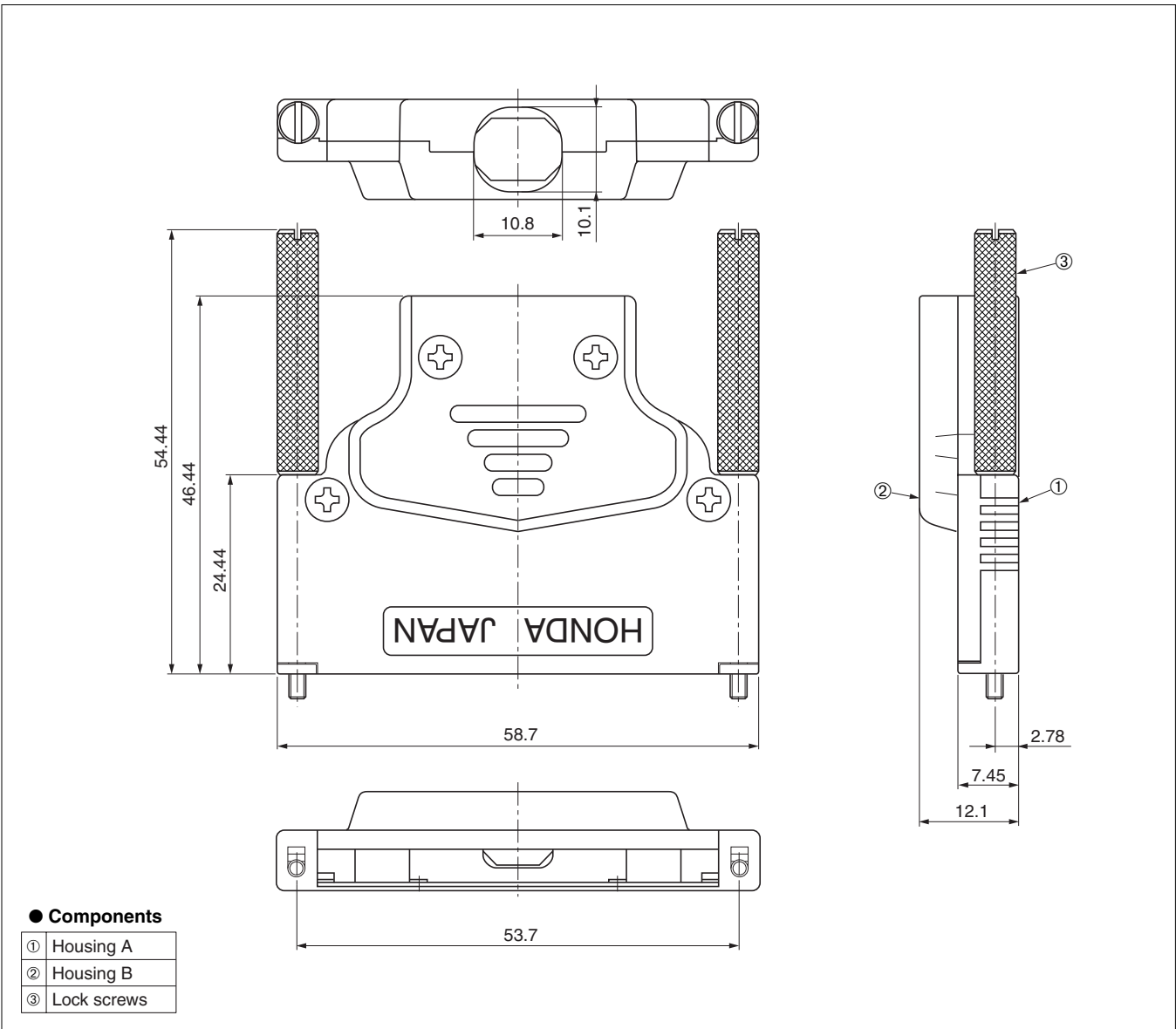


● Configuration of product Part No.

HDRA- E 100 LP A

① ② ③ ④

- ① Series name
- ② No. of contacts: 100
- ③ Type of housing: Vertical type
- ④ Compatible cable
A: Outside diameter of cable is 9.8 mm



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

EMI-filtered vertical metallic housing
HDRA-E100LPW()

Housing

Vertical

EMI filtered

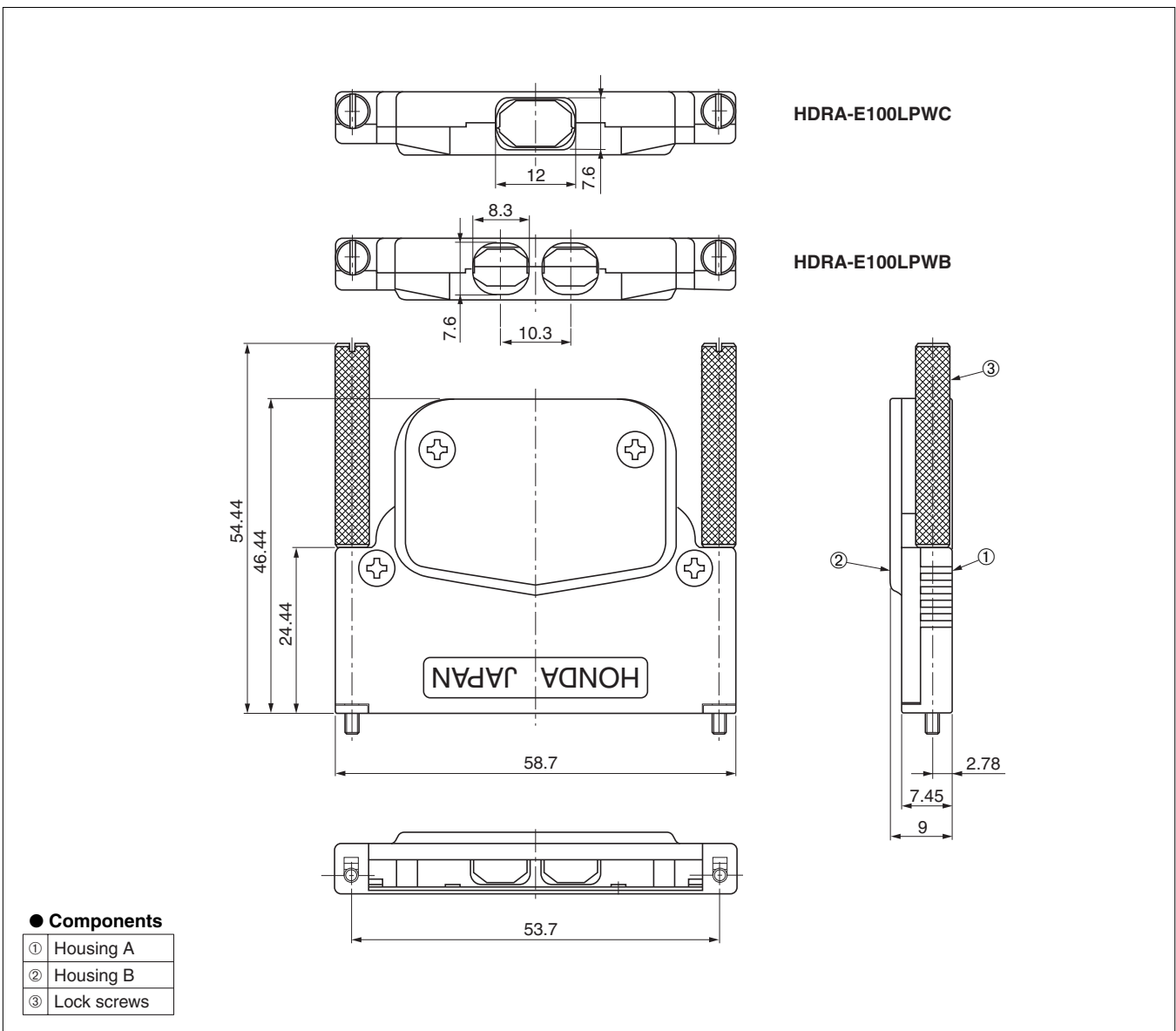
RoHS



● Configuration of product Part No.

HDRA- E 100 LP W ()

- 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+

EMI-shielded vertical plastic housing
HDRA-E36LPTH

Vertical housing

EMI shielded

ANSI/SFF8441

RoHS

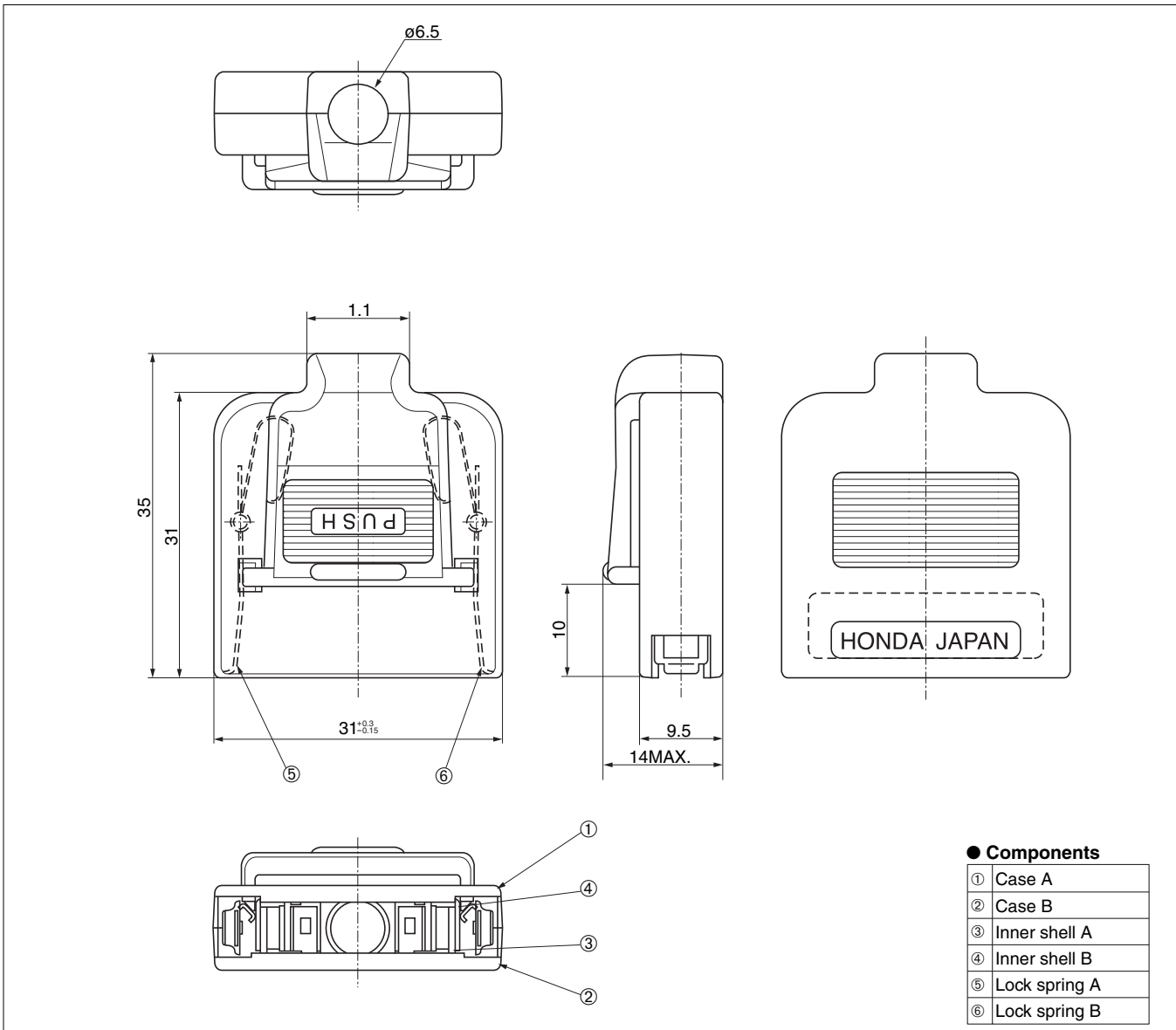


● Configuration of product Part No.

HDRA- E 36 LPTH

① ② ③

- ① Series name
- ② No. of contacts: 36
- ③ Type of housing: Vertical type



● Components

①	Case A
②	Case B
③	Inner shell A
④	Inner shell B
⑤	Lock spring A
⑥	Lock spring B

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

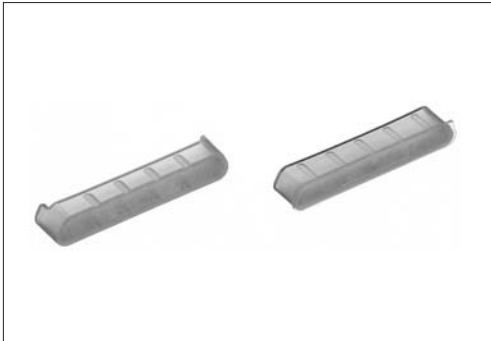
Required tools: Clamp caulking tools: FLPT-0024A (Refer to page Tool-10) Ultrasonic welder, Housing holding jig, Sonic welder

Dust-proof cap
HDRA-E68()-CP

Accessories

Cap

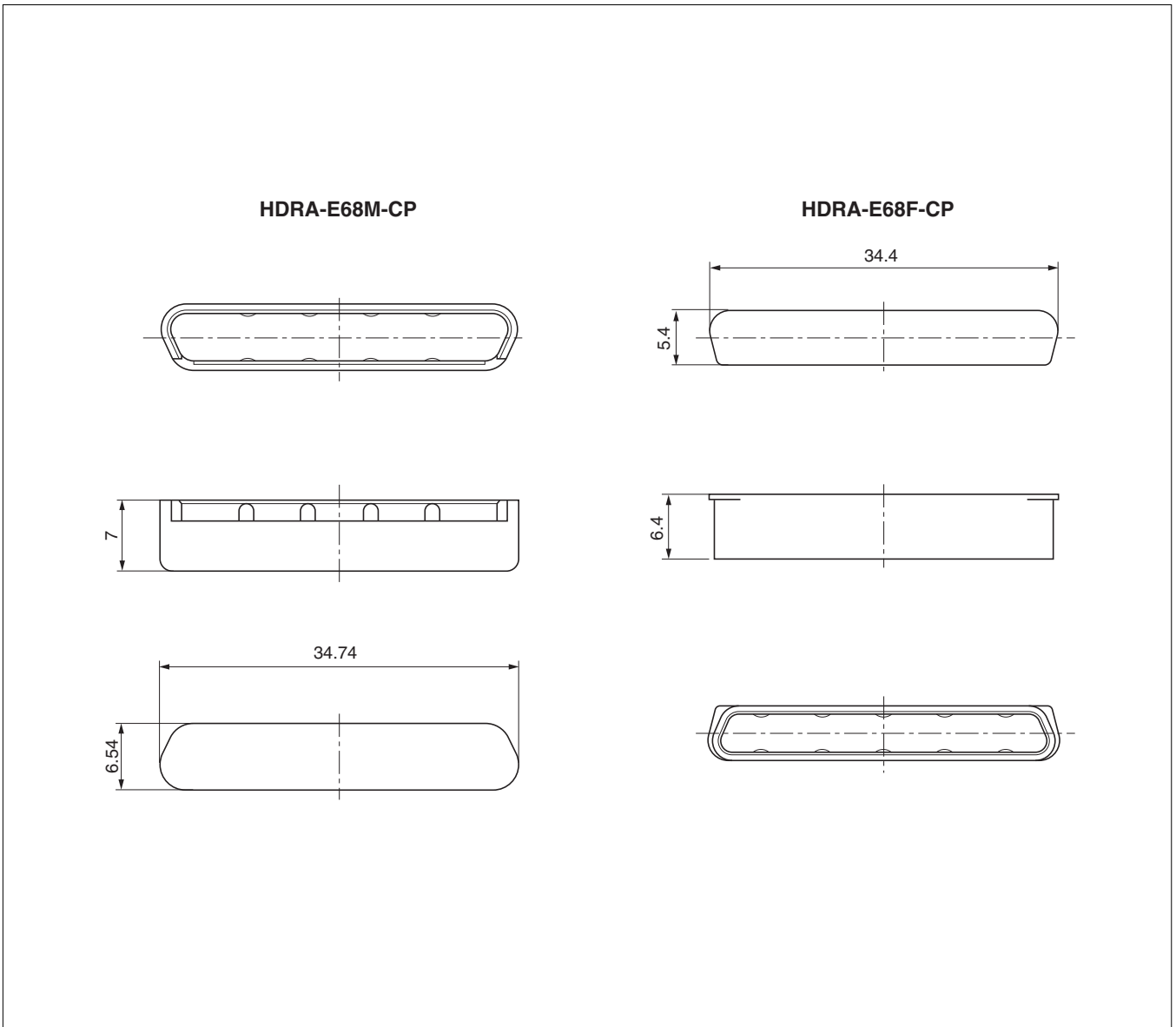
RoHS



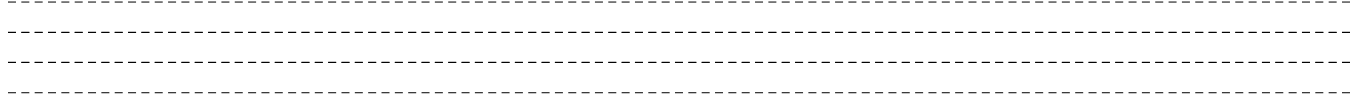
● Configuration of product Part No.

HDRA- E 68 ()- CP

- 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



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

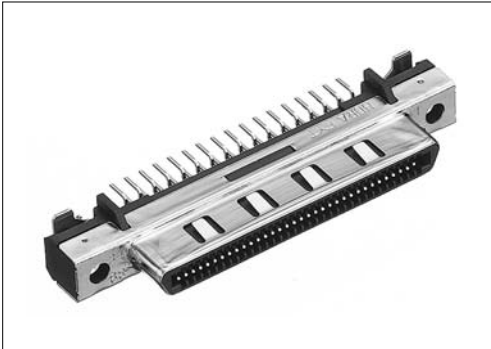
0.8 mm pitch connector

For PCBs

Straight DIP

EMI-filtered countermeasures

RoHS

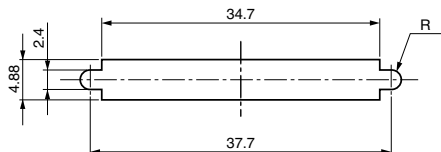
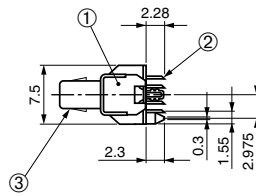
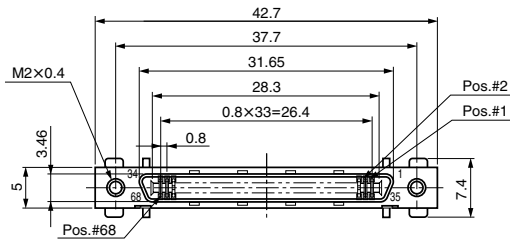
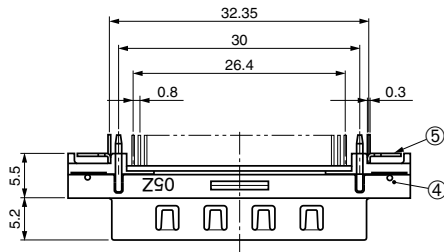


● Configuration of product Part No.

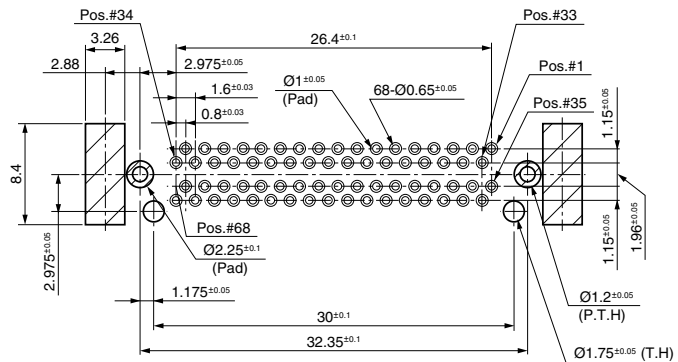
HDRA- EC 68 FD T- ()+

① ② ③ ④ ⑤

- 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



Recommended panel cut-out dimensions



Recommended PCB layout

● Components

①	Insulator
②	Contact
③	Shell
④	Sqr.nut
⑤	Hold down

Mating connector: HDRA series male connectors

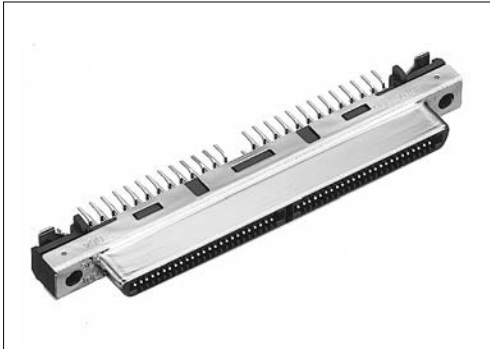
Straight DIP type female connector for PCBs
HDRA-EC100FDT-()+

For PCBs

Straight DIP

RoHS

EMI-filtered countermeasures

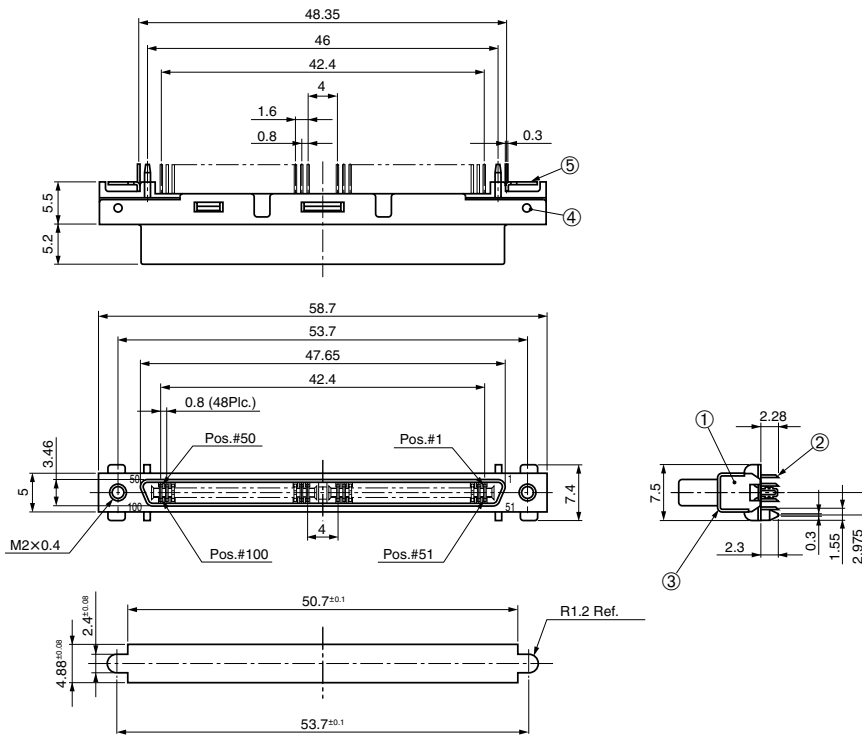


● Configuration of product Part No.

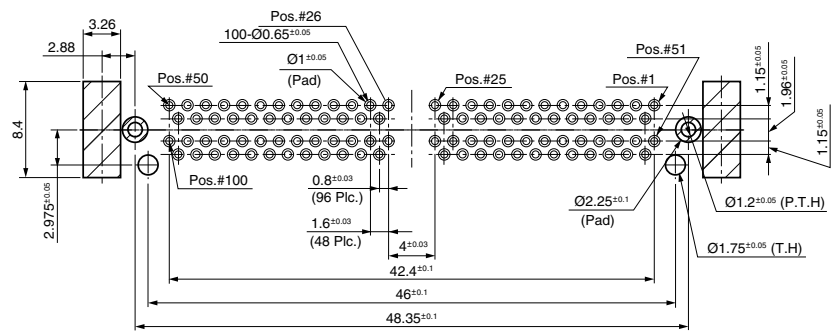
HDRA- EC 100 FD T- ()+

① ② ③ ④ ⑤

- ① Series name
- ② No. of contacts: 100
- ③ Form of contact
FD: Straight, DIP type, female
- ④ With ground lock pin
- ⑤ Lock screw
SLD: Provided
Blank: None



Recommended panel cut-out dimensions



Recommended PCB layout

● Components

①	Insulator
②	Contact
③	Shell
④	Sqr.nut
⑤	Hold down

Mating connector: HDRA series, male connector