

LVC series

Connectors for Fine-wire Coaxial Cables

Outline

LVC series of 0.5 mm pitch connectors have been developed for interconnection between PCs and LCDs through Fine-wire coaxial cables.

Features

- Supports high-speed data transmission.
- Board to cable application for high density packaging.
- Achieves high-speed data transmission by reducing propagation skew as much as possible.
- Low profile type allows reduced mounting space.
- Utilizes pulse-heat soldering technique, which minimizes cable damage during attachment.

Principal Applications

PCs, LCD inverter, LCD interface

Electrical Characteristics

Rated voltage	50V AC
Rated current	0.3 A/pin
Insulation resistance	Over 100 megohms at 250V DC
Dielectric withstanding voltage	150V AC (r.m.s.) for up to one minute

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.

Cable Specifications

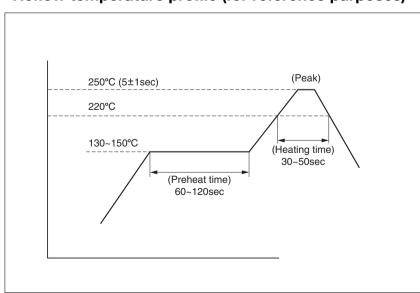
Fine-wire coaxial cable AWG#40 (7/0.03)

Core conductor	0.09 mm diameter
Insulator	0.25 mm diameter
Outside diameter of cable	0.37 mm diameter
Characteristic impedance	50 ohm

Cable Assemblies

Please contact us for details.

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.

Product List



Cable side fine-wire coaxial cable LVC-C20LPMSG+

H-22 LVC series...4



Cable side fine-wire coaxial cable LVC-D30LPMSG+

H-26 LVC series...8



PCB side fine-wire coaxial cable LVC-C40SFYG(TP)+

H-30 LVC series...12



Cable side fine-wire coaxial cable LVC-D20LPMSG+

H-23 LVC series...5



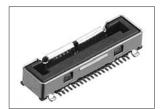
PCB side fine-wire coaxial cable LVC-C()30SFYG(TP)+

H-27 LVC series...9



Pull tab for cable side connector LVC-()P

H-31 LVC series...13



PCB side fine-wire coaxial cable LVC-D20SFYG3(TP).

H-24 LVC series...6



Cable side fine-wire coaxial cable LVC-C40LPMSG+

H-28 LVC series...10



Cable side fine-wire coaxial cable LVC-C30LPMSG+

H-25 LVC series...7



Cable side fine-wire coaxial cable LVC-D40LPMSG+

H-29 LVC series...11

Cable side fine-wire coaxial cable LVC-C20LPMSG+

For LCD

0.5 mm pitch

Cable sides





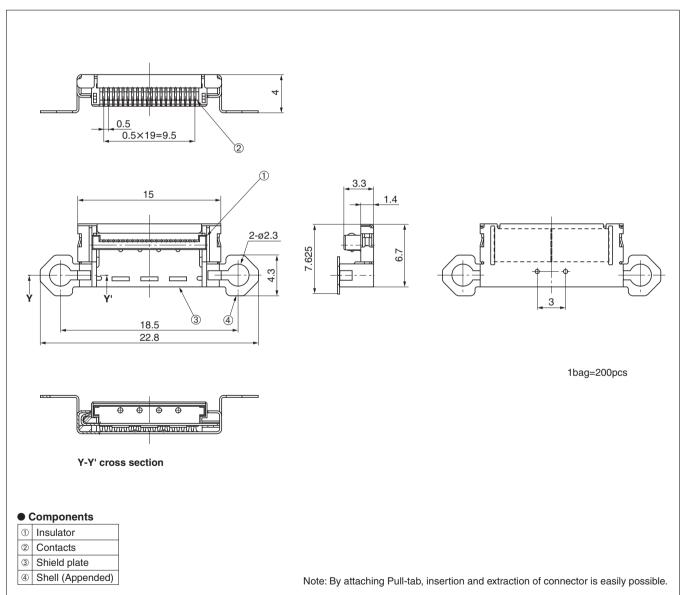
Configuration of product Part No.

LVC- C 20 LPMS G+ (2)

- ① Series name
- ② No. of contacts: 20
- 3 Type of contact

LPMS: Cable side right-angle, male

 Contact plating G: Gold plate



Mating connector: LVC-D20SFYG3.

Accessories: Pull tab, LVC-20P

Cable side fine-wire coaxial cable LVC-D20LPMSG+

For LCD

0.5 mm pitch

Cable sides



Configuration of product Part No.

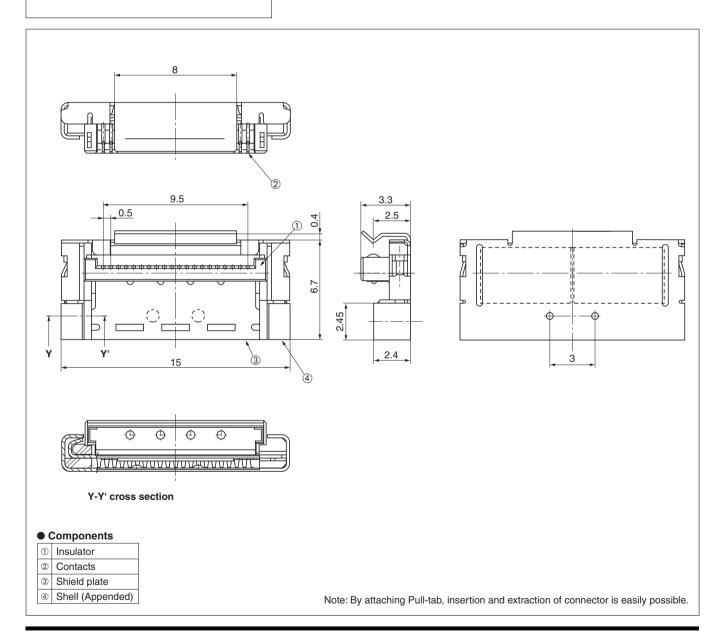
LVC- D 20 LPMS G+

2

- ① Series name
- 2 No. of contacts: 20
- 3 Type of contact

LPMS: Cable side right-angle, male

 Contact plating G: Gold plate



Mating connector: LVC-D20SFYG3.

Accessories: Pull tab, LVC-20P

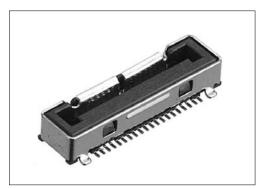
PCB side fine-wire coaxial cable LVC-D20SFYG3(TP).

For LCD

0.5 mm pitch

RoHS

PCB sides



Configuration of product Part No.

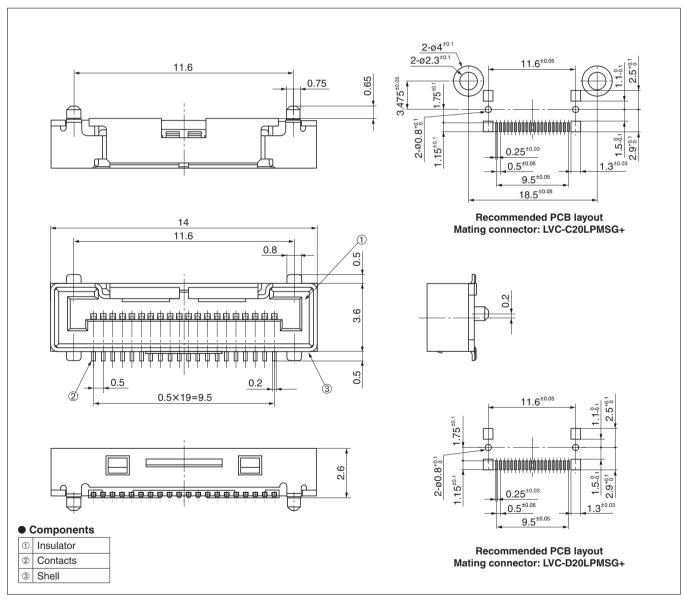
LVC- D 20 SFY G3 (TP).

- ① Series name
- 2 No. of contacts: 20
- 3 Type of contact

SFY: Straight SMT type, female

- Contact plating G: Gold plate
- ⑤ Taping package

TP: With embossed tape and reel (1R=2,500 pcs)



Mating connector: LVC-C20LPMSG+

LVC-D20LPMSG+

Cable side fine-wire coaxial cable LVC-C30LPMSG+

For LCD

0.5 mm pitch

OHS Cable sides

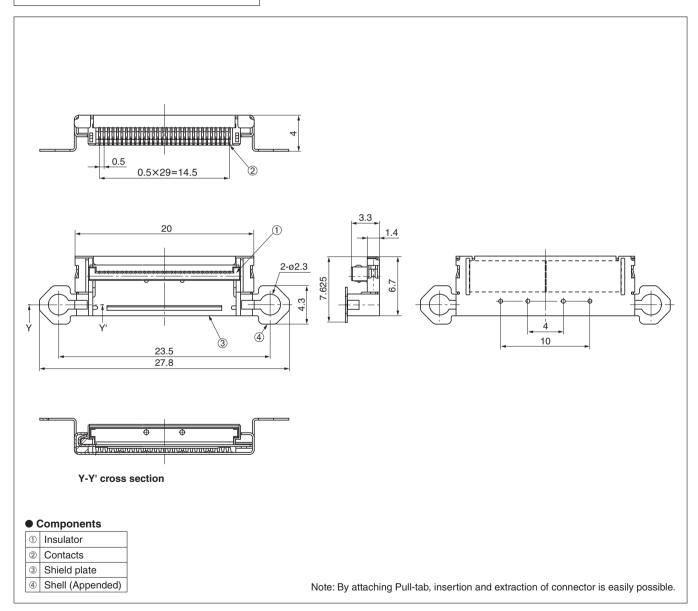




• Configuration of product Part No.

$\frac{\text{LVC-}}{\tiny{\textcircled{0}}}$ C $\frac{30}{\tiny{\textcircled{2}}}$ $\frac{\text{LPMS}}{\tiny{\textcircled{3}}}$ $\frac{\text{G}}{\tiny{\textcircled{4}}}$

- ① Series name
- 2 No. of contacts: 30
- 3 Type of contact
 - LPMS: Cable-side right-angle, male
- G: Gold plate



Mating connector: LVC-C()30SFYG+

Accessories: Pull tab, LVC-30P

Cable side fine-wire coaxial cable LVC-D30LPMSG+

For LCD

0.5 mm pitch

(RoHS)

Cable sides



Configuration of product Part No.

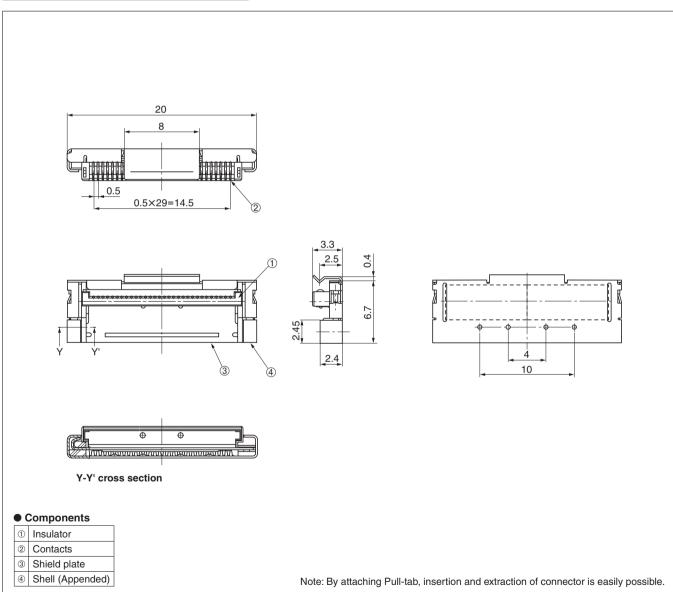
LVC- D 30 LPMS G+

1 2

- ① Series name
- 2 No. of contacts: 30
- 3 Type of contact

LPMS: Cable-side right-angle, male

4 Contact platingG: Gold plate



Mating connector: LVC-C()30SFYG+

Accessories: Pull tab, LVC-30P

PCB side fine-wire coaxial cable LVC-C()30SFYG(TP)+

For LCD

0.5 mm pitch

(RoHS)

PCB sides



Configuration of product Part No.

\underline{LVC} - C $\underline{()}$ $\underline{30}$ \underline{SFY} \underline{G} $\underline{(TP)}$ +

① Series name

② Blank: With Boss A: No Boss

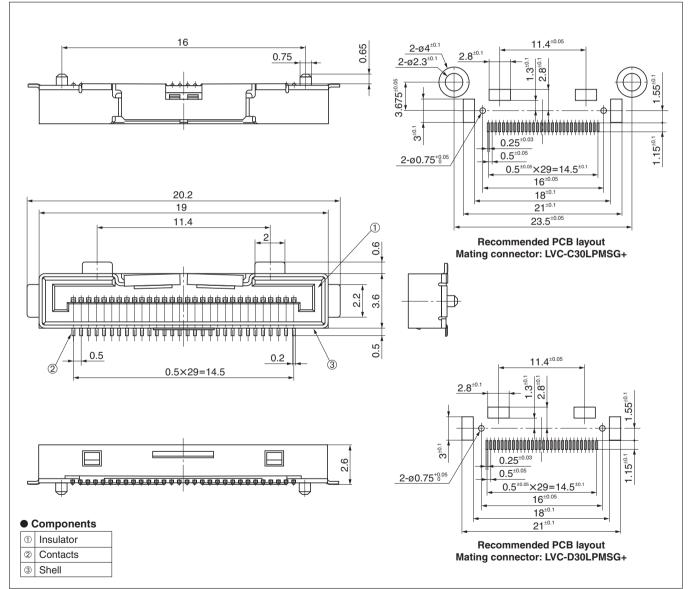
3 No. of contacts: 30

Type of contact

SFY: Straight SMT type, female

⑤ Contact platingG: Gold plate

Taping packageTP: With embossed tape and real (1R=1,500pcs)



Mating connector: LVC-C30LPMSG+

LVC-D30LPMSG+

Wire Crimpi

Crimping

lering |

Pres

SMT

ihrough hole

Fine-wire coaxial cable

Cable side fine-wire coaxial cable LVC-C40LPMSG+

For LCD

0.5 mm pitch

Cable sides

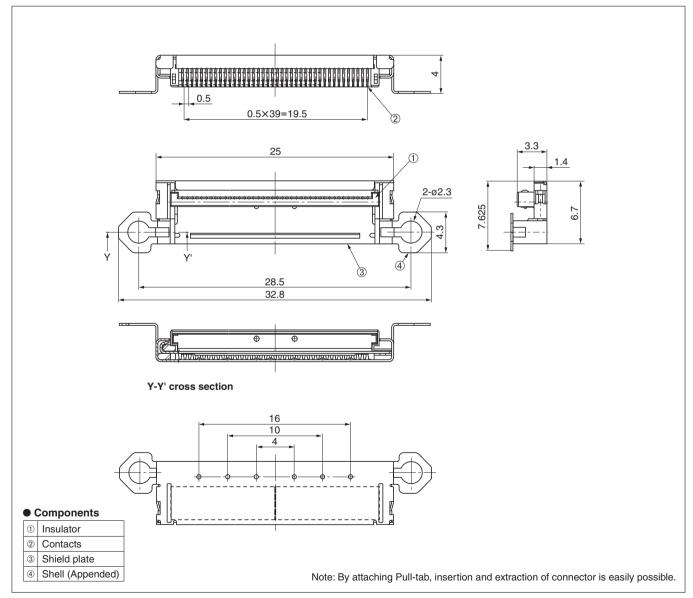




Configuration of product Part No.

\underline{LVC} - C $\underline{40}$ \underline{LPMS} \underline{G} +

- ① Series name
- 2 No. of contacts: 40
- 3 Type of contact
 - LPMS: Cable-side right-angle, male
- G: Gold plate



Mating connector: LVC-C40SFYG+

Accessories: Pull tab, LVC-40P

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Cable side fine-wire coaxial cable LVC-D40LPMSG+

For LCD

0.5 mm pitch

Cable sides





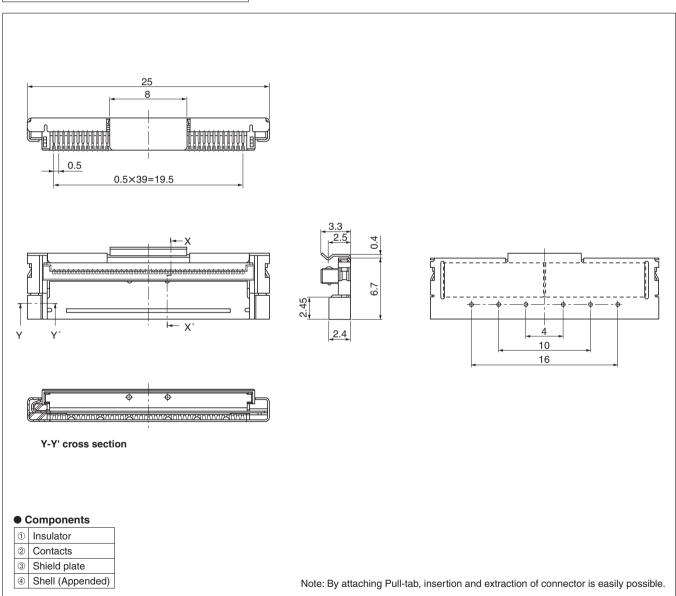
Configuration of product Part No.

LVC- D 40 LPMS G+

- (1) (2)
- Series name
 No. of contacts: 40
- ③ Type of contact

LPMS: Cable-side right-angle, male

G: Gold plate



Mating connector: LVC-C40SFYG+

Accessories: Pull tab, LVC-40P

PCB side fine-wire coaxial cable LVC-C40SFYG(TP)+

For LCD

0.5 mm pitch

(RoHS)

PCB sides



Configuration of product Part No.

LVC- C 40 SFY G (TP)+

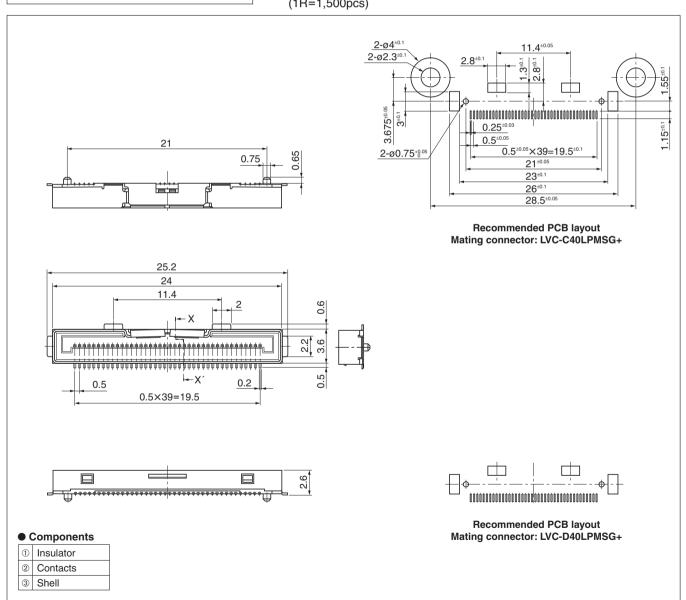
- ① Series name
- 2 No. of contacts: 40
- 3 Type of contact

SFY: Straight SMT type, female

- Contact plating G: Gold plate
- ⑤ Taping package

TP: With embossed tape and real

(1R=1,500pcs)



Mating connector: LVC-C40LPMSG+

LVC-D40LPMSG+

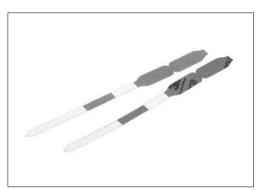
Pull tab for cable side connector LVC-()P

Accessories

Pull tab

(RoHS)

LCD and PCB sides

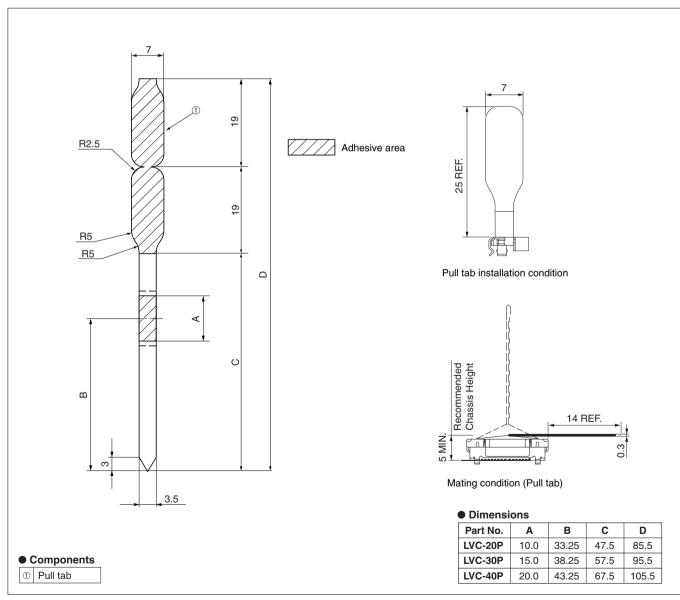


Configuration of product Part No.

LVC-() P

- ① Series name
- ② No. of contacts
 - 20: 20 contacts
 - 30: 30 contacts

 - 40: 40 contacts



Mating connectors: LVC-20P:LVC-C20LPMSG+, LVC-D20LPMSG+

LVC-30P:LVC-C30LPMSG+, LVC-D30LPMSG+

LVC-40P:LVC-C40LPMSG+, LVC-D40LPMSG+

0.5 mm pitch SMT type female connector for super-thin coaxial cables LVC-D22SFYG+

For LCDs

(RoHS)

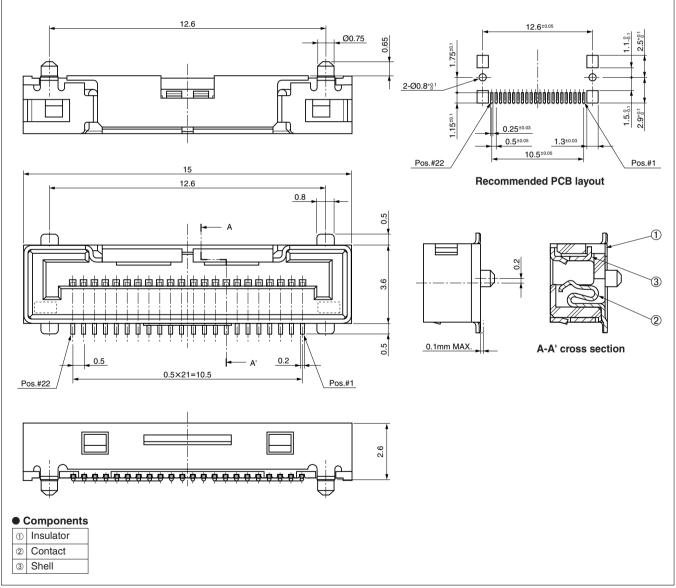
0.5 mm pitch **PCB** side



Configuration of product Part No.

LVC-D 22 SFY G+

- ① Series name
- 2 No. of contacts: 22
- 3 Form of contact SFY: Straight, SMT type, female
- Contact plating G: Gold plate



Mating connectors: LVC-D22LPMSG+

es

0.5 mm pitch

PCB side

0.5 mm pitch SMT type female connector for super-thin coaxial cables (Delivered in the form of embossed tape for automatic insertion) LVC-D22SFYG(TP)+

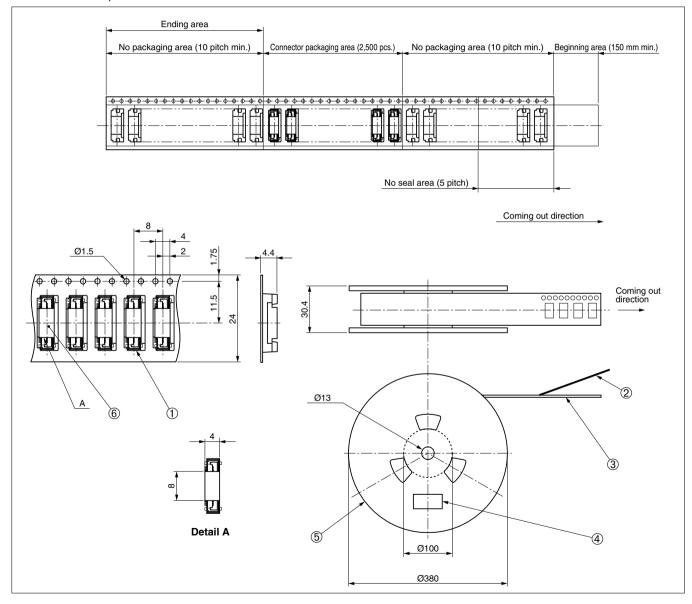
Configuration of product Part No.



- ① Series name
- 2 No. of contacts: 22
- 3 Form of contact
 - SFY: Straight, SMT type, female
- 4 Contact platingG: Gold plate
- 5 Taping packages

TP: Taping packages (One reel provides 2,500 contacts.)

Blank: Discrete pieces of connectors



Mating connectors: LVC-D22LPMSG+

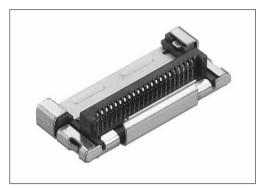
0.5 mm pitch male connector for super-thin coaxial cables LVC-D22LPMSG+

For LCDs

0.5 mm pitch

RoHS

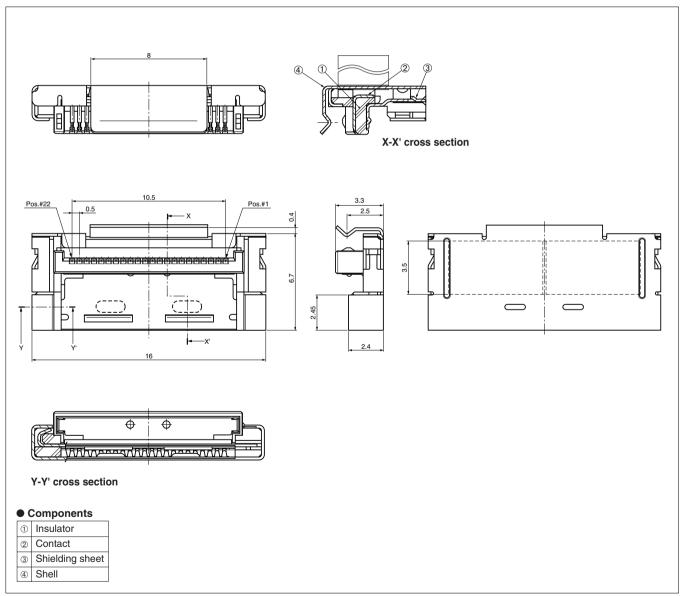
Cable side



Configuration of product Part No.

$\underline{\text{LVC-}}$ D $\underline{22}$ $\underline{\text{LPMS}}$ $\underline{\text{G+}}$

- ① Series name
- 2 No. of contacts: 22
- 3 Form of contact
- LPMS: Cable-side right-angle, male
- G: Gold plate



Mating connectors: LVC-D22SFYG

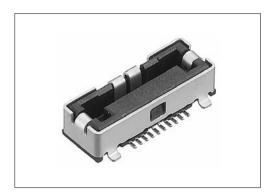


0.5 mm pitch SMT type female connector for super-thin coaxial cables LVC-D10SFYG+

For LCDs

(RoHS)

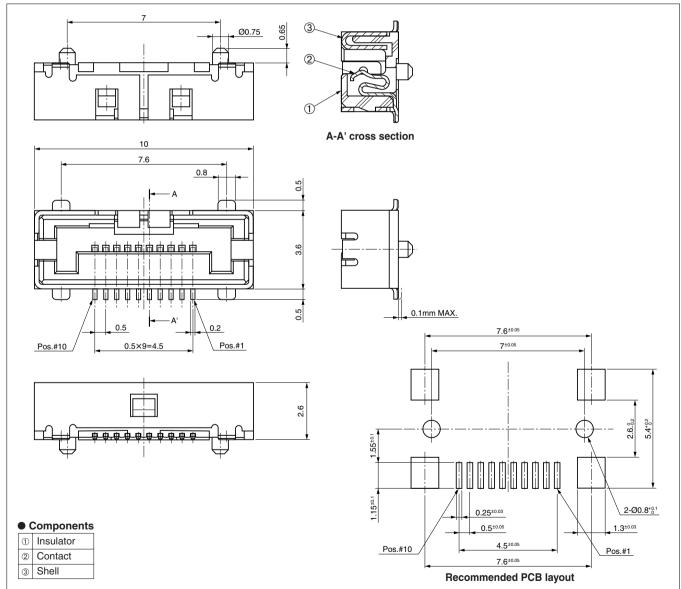
0.5 mm pitch
PCB side



Configuration of product Part No.

$\underline{\text{LVC-}} D \underline{10} \underline{\text{SFY}} \underline{\text{G}} +$

- ① Series name
- 2 No. of contacts: 10
- 3 Form of contact
 - SFY: Straight, SMT type, female
- 4 Contact platingG: Gold plate



Mating connectors: LVC-D10LPMSG+

(III) HONDA TSUSHIN KOGYO CO., LTD.

For super-thin coaxial cables

0.5 mm pitch SMT type female connector for super-thin coaxial cables (Delivered in the form of embossed tape for automatic insertion)

LVC-D10SFYG(TP)+

For LCDs

0.5 mm pitch

(RoHS)

PCB side

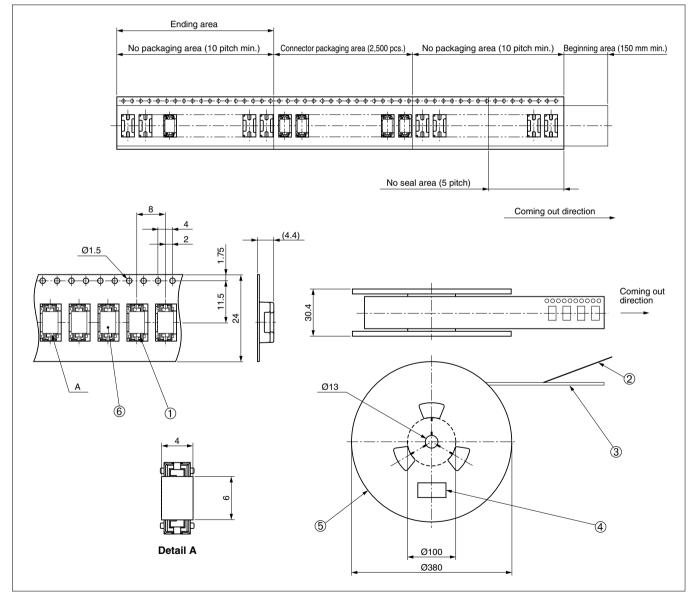
Configuration of product Part No.

$\underline{\text{LVC-}}$ D $\underline{10}$ $\underline{\text{SFY}}$ \underline{G} $\underline{(TP)}$ +

- ① Series name
- 2 No. of contacts: 10
- ③ Form of contact
- SFY: Straight, SMT type, female
- 4 Contact platingG: Gold plate
- ⑤ Taping packages

TP: Taping packages (One reel provides 2,500 contacts.)

Blank: Discrete pieces of connectors



Mating connectors: LVC-D10LPMSG+

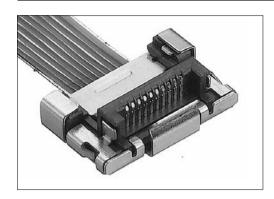
0.5 mm pitch connector for super-thin coaxial cables LVC-D10LPMSG+

For LCDs

0.5 mm pitch

RoHS

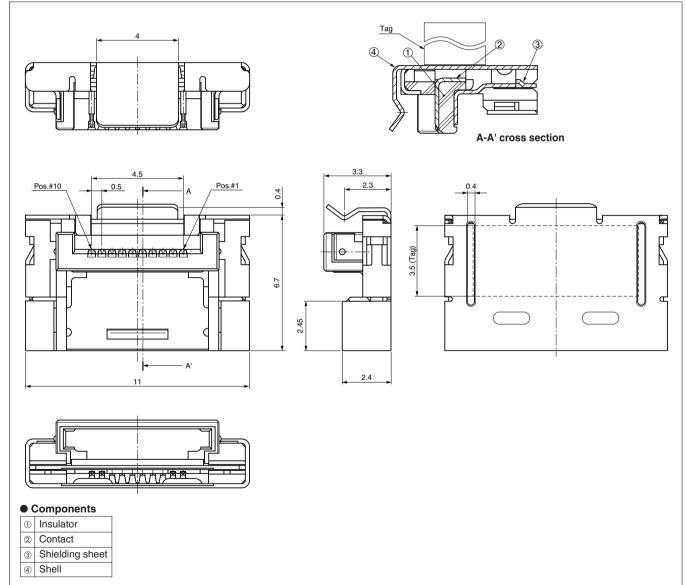
Cable side



Configuration of product Part No.

LVC- D 10 LPMS G+

- ① Series name
- ② No. of contacts: 10
- 3 Form of contact
 - LPMS: Cable-side right-angle, male
- 4 Contact platingG: Gold plate



Mating connectors: LVC-D10SFYG+