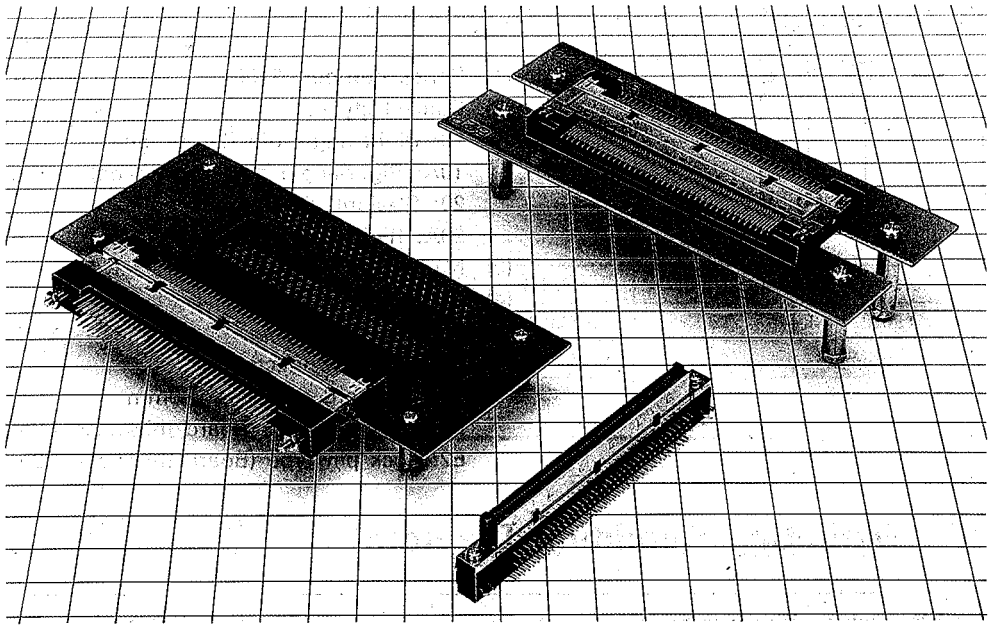
# HRS 3200 Series

## Interface Connectors with 0.8mm spacing Docking Connectors

### ■ GENERAL

The 3200 Series of board-to-board connectors is designed for use with high-density interfaces and comes with 152, 240 pins and 0.8 mm contact spacing.



### ■ FEATURES

1. Contact spacing is 0.8 mm (with a 152-position, 2-row type and a 240-position, 4-row type).
2. A highly reliable two-point contact design is used for the pin structure.
3. The lead section of the board mounting side has a 0.8-mm spacing with 4 rows having 1.905 mm between rows (for 152 positions) and 8 rows (for 240 positions) in a staggered arrangement which simplifies board pattern design.
4. Six contacts at each end, totalling 12 contacts (for 152 positions) and 8 contacts at each end, totalling 16 contacts (for 240 positions) are of a sequenced construction which make contact before the other contacts.
5. These board-to-board type connectors feature a guided construction for ease of engagement.
6. A shell system has been used as a measure against noise and grounds are dropped directly to the board and panel.
7. A lock-pin system has been used for provisional fastening to the board which prevents lifting at the time of soldering.

### ■ APPLICATIONS

Personal computers, workstations, etc.

## ■ MAJOR SPECIFICATIONS

| Item | Performance |
|---|---|
| Current capacity | 0.5A |
| Rated voltage | 125V AC |
| Insulation resistance | 250MΩ or greater at 100V DC |
| Contact resistance | 50m or less at 100mA DC |
| Withstand voltage | 300V AC rms for 1 minute |
| Contact life | 5,000 cycles |
| Suitable board thickness | 1.2mm and 1.6mm |

## ■ MATERIALS AND PROCESSING

| Main Materials Used | | |
|---|---|---|
| Item | Material | Process |
| Shell | Copper alloy | Nickel plating |
| Insulator | ※Synthetic resin | Black |
| Male pins | Copper alloy | Partial gold plating |
| Female pins | Copper alloy | Partial gold plating |

※UL94V-0

## ■ STRUCTURE OF THE PRODUCT NUMBER

### ● Receptacle Connectors

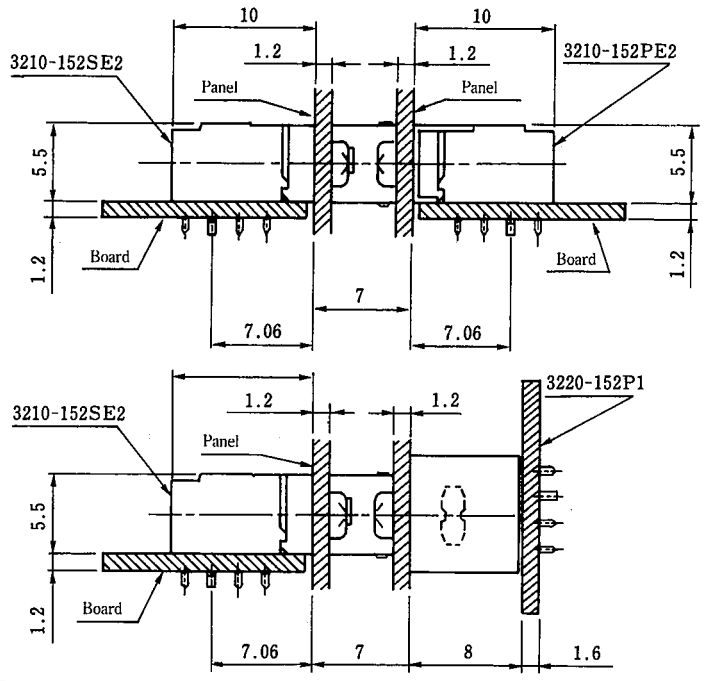
**32 10 — 152 S E1**

(1) (2) (3) (4) (5)

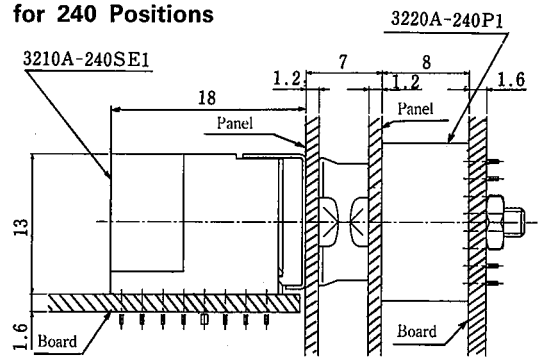
(1) Series number: 3200
(2) Contact style
10: Right angle dip (2-row type)
10A: Right-angle dip (4-row type)
20: Straight dip (2-row type)
20A: Right-angle dip (4-row type)
(3) Number of pins: 152, 240
(4) Type of opening
P: Male connector
S: Female connector
(5) 1: For Board thickness 1.6mm
E1: Lock pin type (Board thickness 1.6mm)
E2: Lock pin type (Board thickness 1.2mm)

### ◆ Connector Mounting Condition Diagram

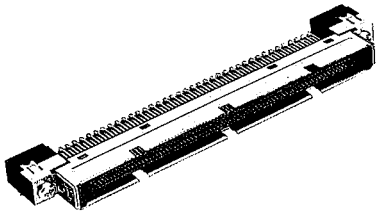
**Panel Mounting Dimensions Diagram for 152 Positions**



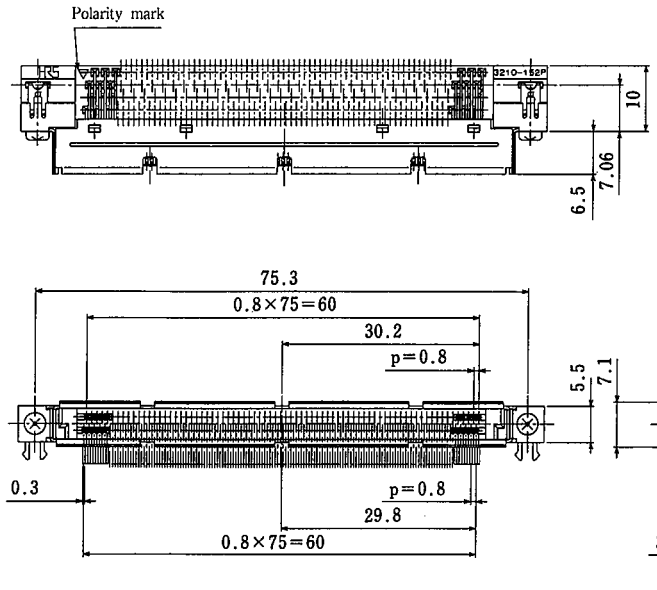

**Panel Mounting Dimensions Diagram for 240 Positions**



## ■ MALE RIGHT ANGLE DIP TYPE



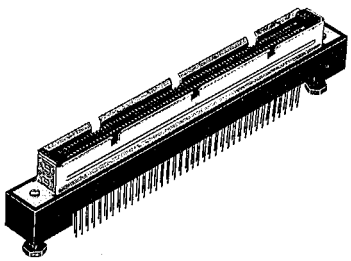
CL232-0501-7
3210-152PE2



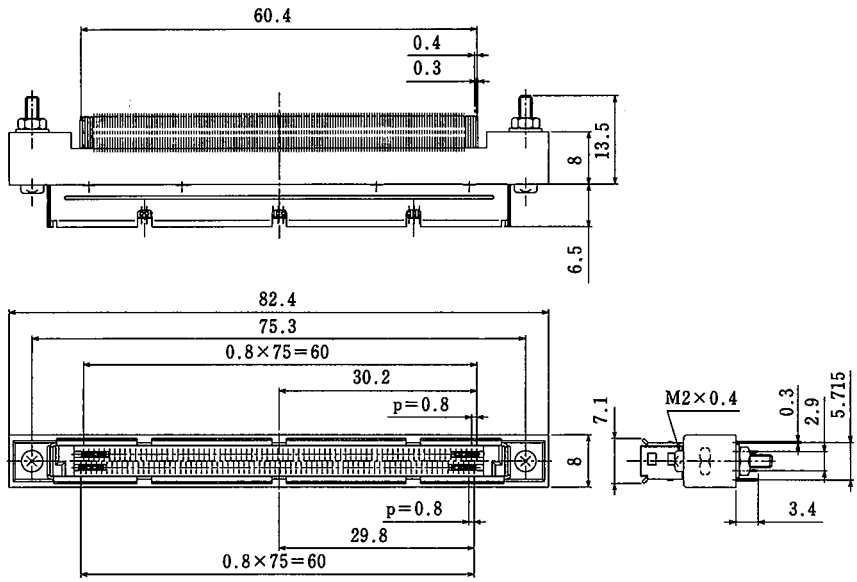

Unit: mm

| HRS No. | Number of Pins | Product No. | A |
|---|---|---|---|
| CL232-0505-8 | 152 | 3210-152PE1 | 3.4 |
| CL232-0501-7 | 152 | 3210-152PE2 | 2.4 |

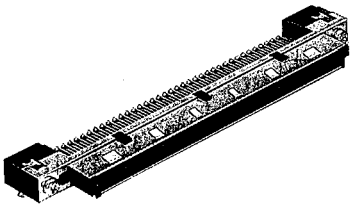
## ■ MALE STRAIGHT DIP TYPE

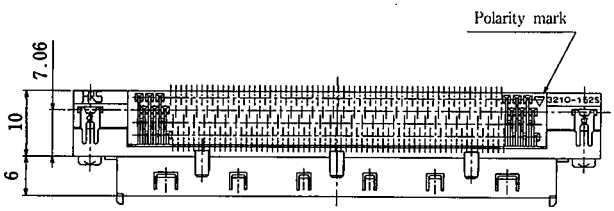


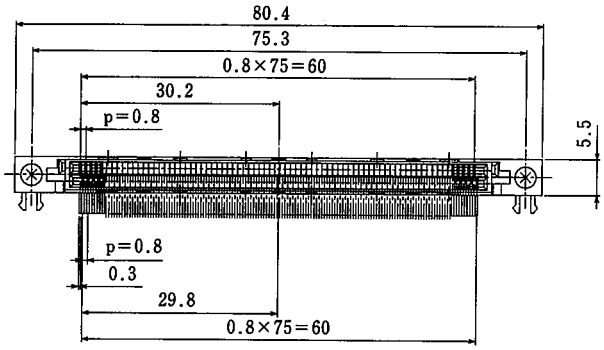
CL232-0508-6
3220-152P1

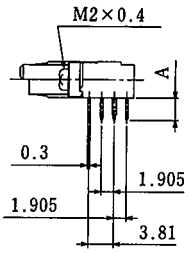


# FEMALE RIGHT ANGLE DIP TYPE

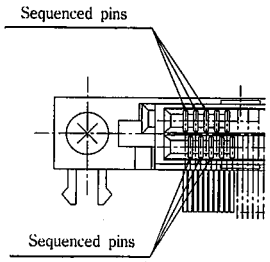





CL232-0500-4
3210-152SE2

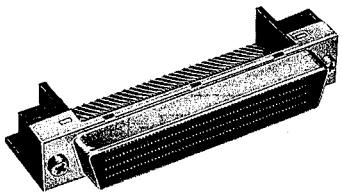



**Six contacts at each end, totalling 12 contacts, are of a sequenced system which makes contact before the other contacts.**

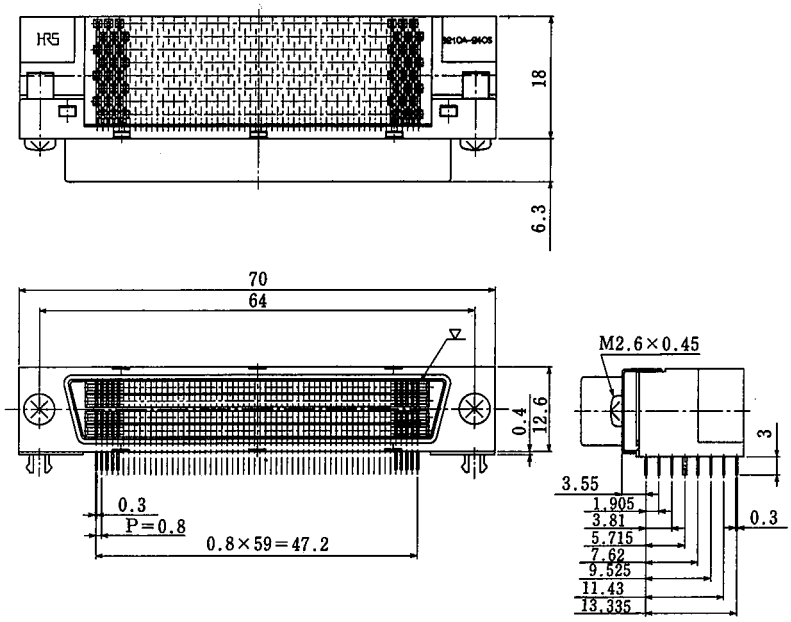
Unit: mm

| HRS No. | Number of Pins | Product No. | A |
|---|---|---|---|
| CL232-0504-5 | 152 | 3210-152SE1 | 3.4 |
| CL232-0500-4 | 152 | 3210-152SE2 | 2.4 |

## ■ FEMALE RIGHT ANGLE DIP TYPE

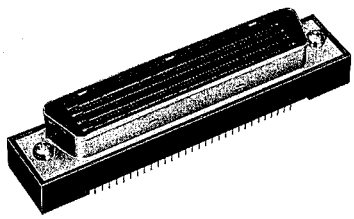


CL232-0509-9
3210A-240SE1

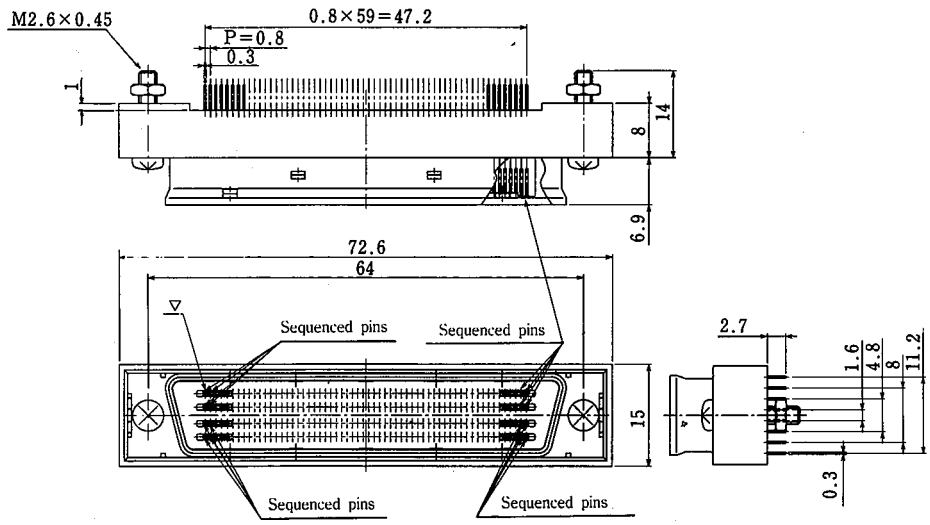



| HRS No. | Number of Pins | Product No. |
|---|---|---|
| CL232-0509-9 | 240 | 3210A-240SE1 |

## ■ MALE STRAIGHT DIP TYPE



CL232-0510-8
3220A-240P1

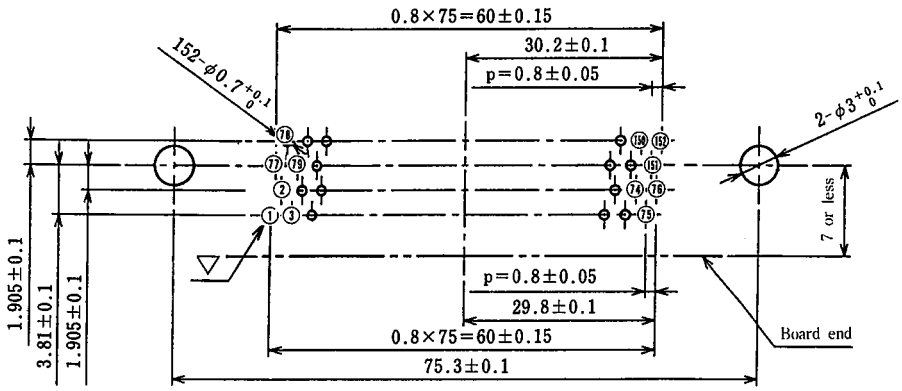



**Eight contacts at each end, totalling 16 contacts, are of a sequenced system which makes contact before the other contacts.**

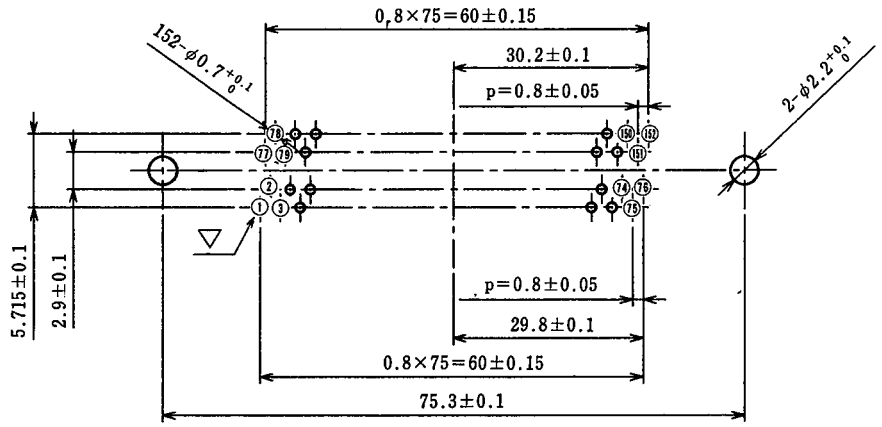
| HRS No. | Number of Pins | Product No. |
|---|---|---|
| CL232-0510-8 | 240 | 3220A-240P1 |

## ◆ Board Mounting Dimensions Diagram (Recommended Board thickness: 1.2mm or 1.6mm)

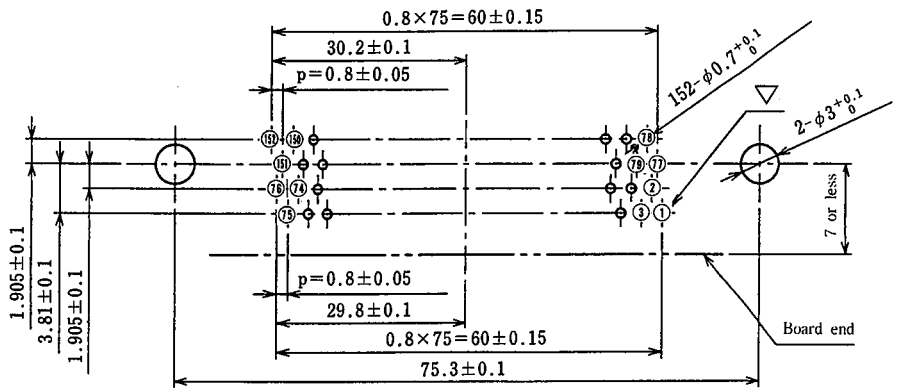
### ● 3210-152PE※ (Male right angle dip type)



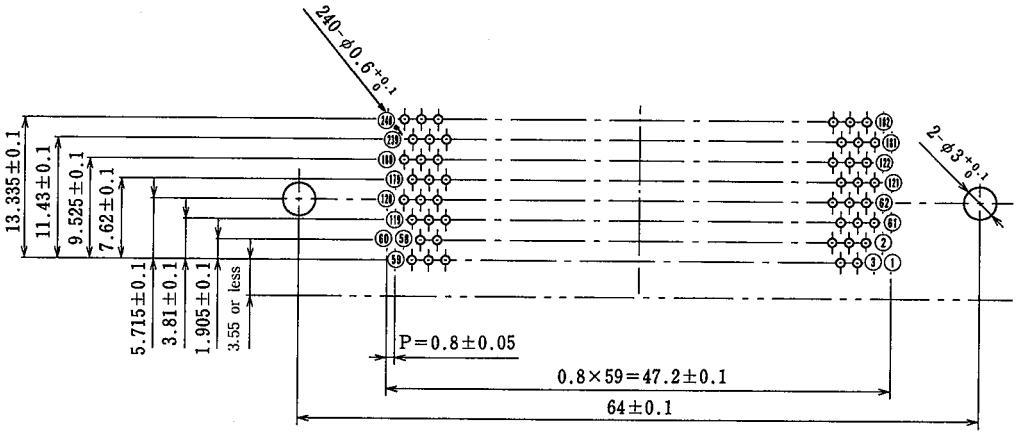

### ● 3220-152P1 (Male vertical dip type)



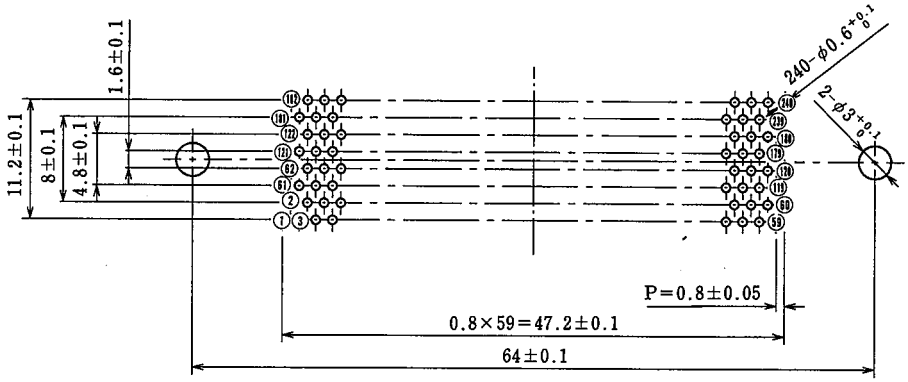

### ● 3210-152SE※ (Female right angle dip type)



## ● 3210A-240SE1 (Female right angle dip type)

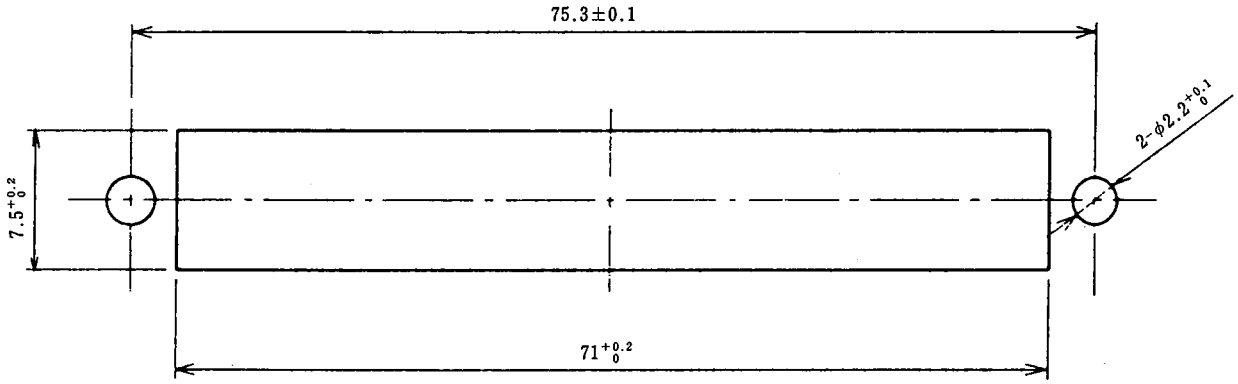



## ● 3220A-240P1 (Male vertical dip type)

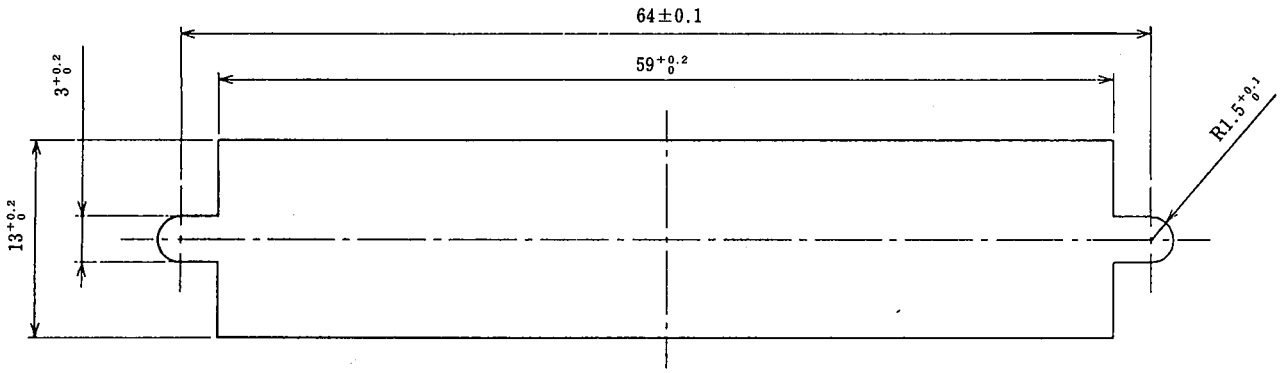


## Panel Mounting Dimensions Diagram (Recommended Panel thickness: 1.2mm or less)

- **152 Positions**

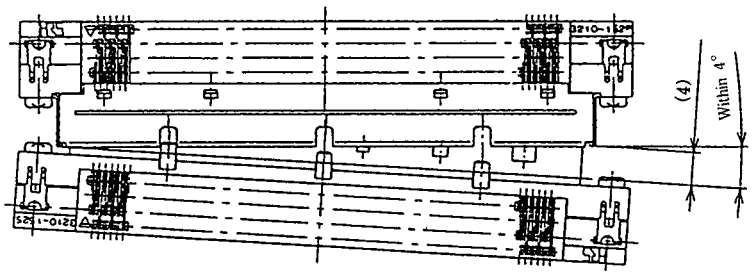



- **240 Positions**




## Caution

Connectors are equipped with molded guides and so forceful prying of the connectors will result in breakage. In keeping with the design of the connector set, the maximum prying angle should be kept within 4 degrees.



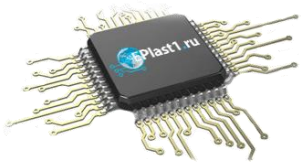
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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

**Телефон:** 8 (812) 309 58 32 (многоканальный)
**Факс:** 8 (812) 320-02-42
**Электронная почта:** org@eplast1.ru
**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.