Amphenol® Aerospace

# R-SATA
## Speeds to 6.25 Gb/s +

**PDS-240-3**

## R-SATA CONNECTORS

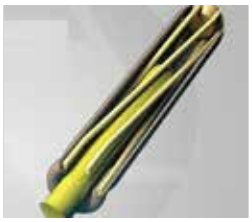
The new (Rugged) R-SATA style connector is perfectly suited as the primary internal storage interconnect for desktop and mobile PCs, connecting the system to peripherals such as hard drives, solid state drives, optical drives, and removable magnetic media drives.

The R-SATA supports SATA 3.0 protocol, delivering 6.25 Gb/s data rates & beyond. Amphenol's R-SATA connector utilizes a Micro-Hyperboloid contact with proven performance. The Micro-Hyperboloid contact system offers low insertion and extraction forces, high durability counts and is resistant to shock, vibration and fretting corrosion.

### Features & Benefits

- Ruggedized SATA style
- Supports SATA 3.0 protocol (6.25 Gb/s) & beyond
- Rugged Micro-Hyperboloid contacts
- Low insertion/extraction force
- 20K mating cycles
- Resistant to shock, vibration & fretting corrosion
- 7 pin SATA & Combo (Power/Signal) 22 pin R-SATA contact arrangements (two differential pairs, 3 ground)
- Foot print compatible with 3M SATA Connectors

Micro-Hyperboloid Socket Contact



Cross Section - Mated View

### Application Flexibility

- Four body styles for 7 and Combo (Power/Signal) 22 pin arrangements
  - Right Angle Plug - Daughterboard
  - Straight Receptacle - Motherboard
  - Right Angle Receptacle - PC
  - Straight Plug - Parallel Boards

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# R-SATA Speeds to 6.25 Gb/s +

## PDS-240-3

## Four Possible Mated Configurations for 7 and Combo 22 Pin Arrangements*

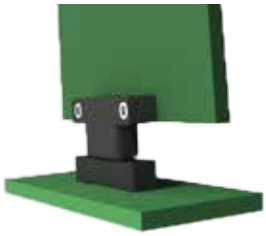
End to End Boards

Right angle receptacle to right angle plug

Boards at Right Angle

Right angle plug to straight receptacle

Boards at Right Angle



Right angle receptacle to straight plug

Parallel Boards

Straight receptacle to straight plug

*7 pin configuration shown

## How to Order - R-SATA with PCB Termination

| 1. Series | 2. Body Style | 3. Contacts | 4. Termination |
|---|---|---|---|
| RS | RRA | 07 | 0702 |

| SERIES | |
|---|---|
| RS | R-SATA |

| BODY STYLE | |
|---|---|
| PRA | Plug, Right Angle |
| PST | Plug, Straight |
| RRA | Receptacle, Right Angle |
| RST | Receptacle, Straight |

| CONTACTS | |
|---|---|
| 07 | 7 Contacts |
| 22 | 22 Contacts |

| TERMINATION | |
|---|---|
| 0702 | PCB .070" Stickout, AU/Ni |
| 0706 | PCB .070" Stickout, AU/Ni-Sn/Pb |
| 0852 | PCB .085" Stickout, AU/Ni |
| 0856 | PCB .085" Stickout, AU/Ni-Sn/Pb |
| 1002 | PCB .100" Stickout, AU/Ni |
| 1006 | PCB .100" Stickout, AU/Ni-Sn/Pb |
| 1152 | PCB .115" Stickout, AU/Ni |
| 1156 | PCB .115" Stickout, AU/Ni-Sn/Pb |

| FINISH KEY | |
|---|---|
| Au/Ni | Gold over Nickel |
| Au/Ni-Sn/Pb | Gold over Nickel with Tin Lead Dip |

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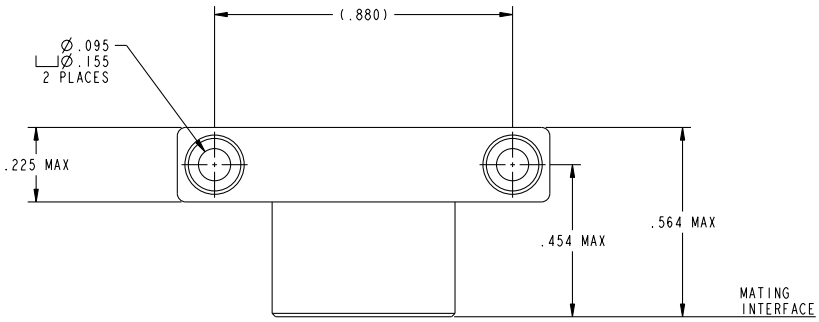
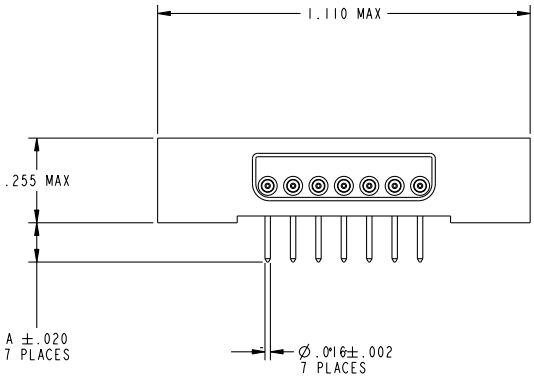
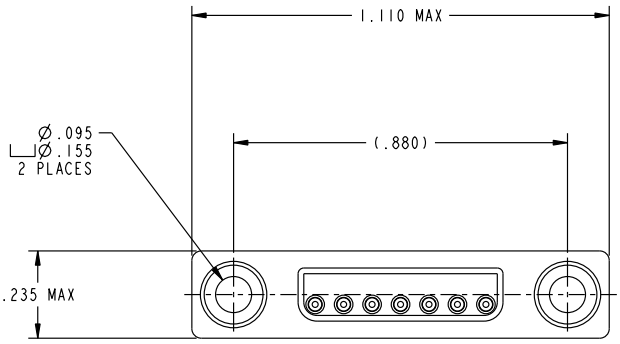
# PDS-240-3

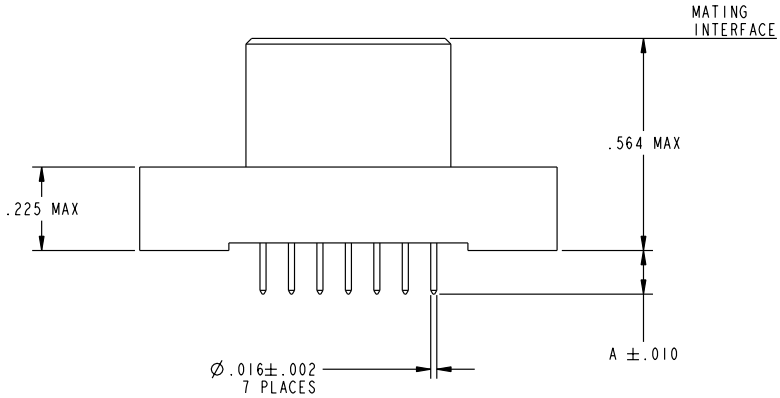
## 7 Pin Right Angle Plug




## 7 Pin Straight Plug

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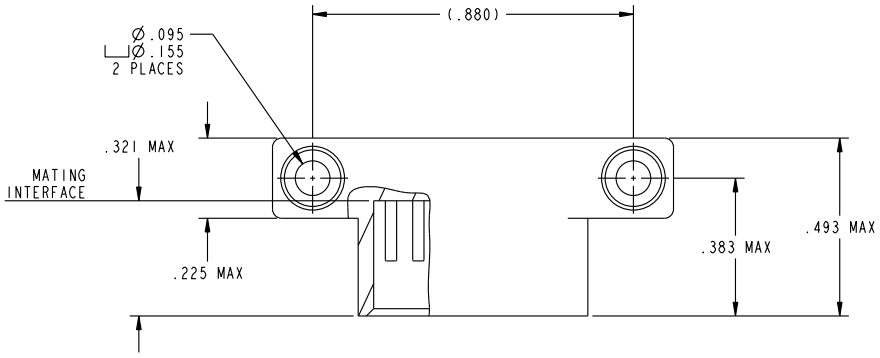
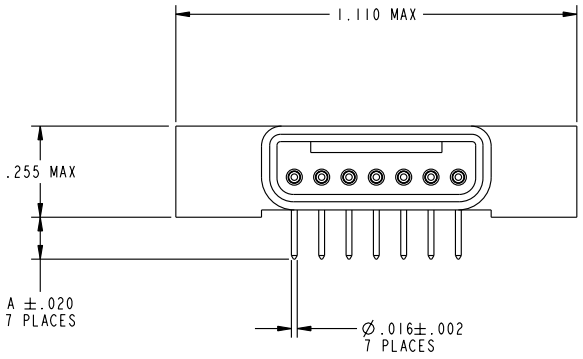
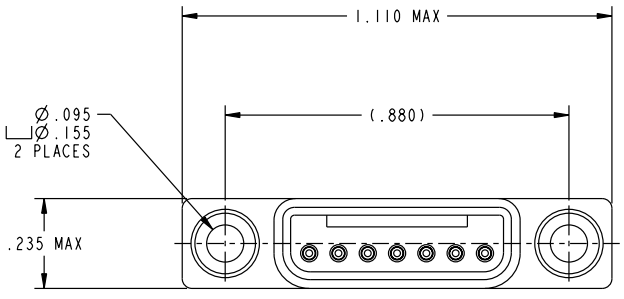
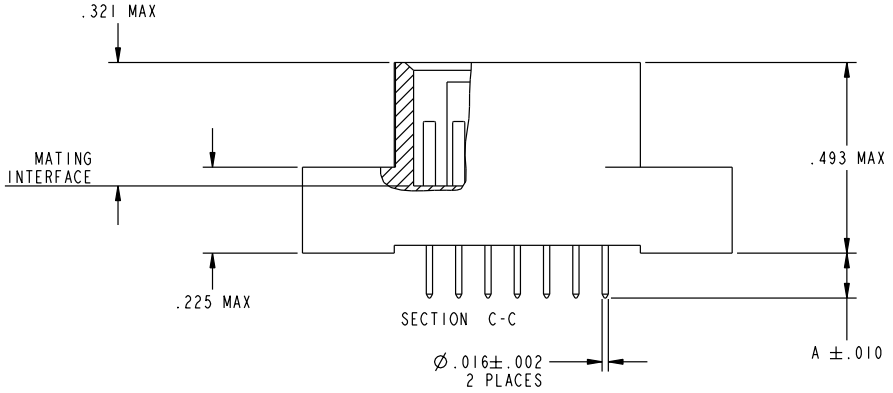
## 7 Pin Right Angle Receptacle




## 7 Pin Straight Receptacle

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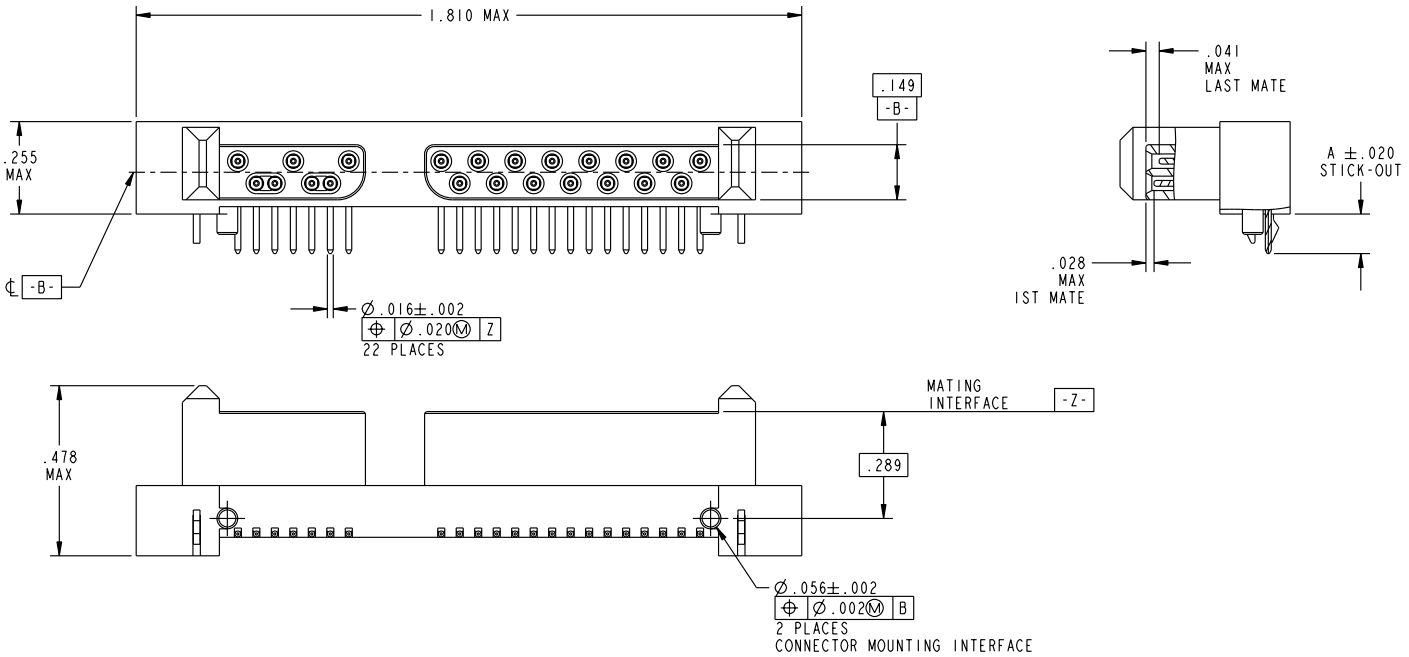
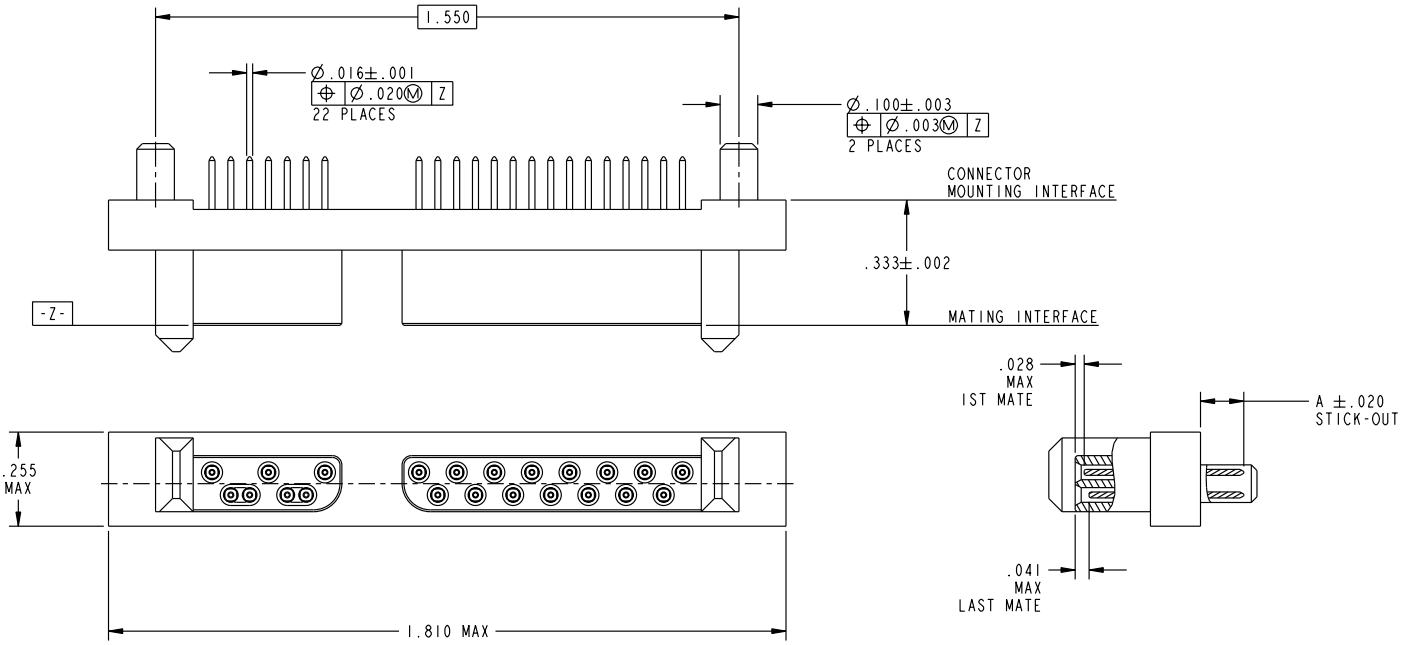
## Combo 22 Pin Right Angle Plug




## Combo 22 Pin Straight Plug





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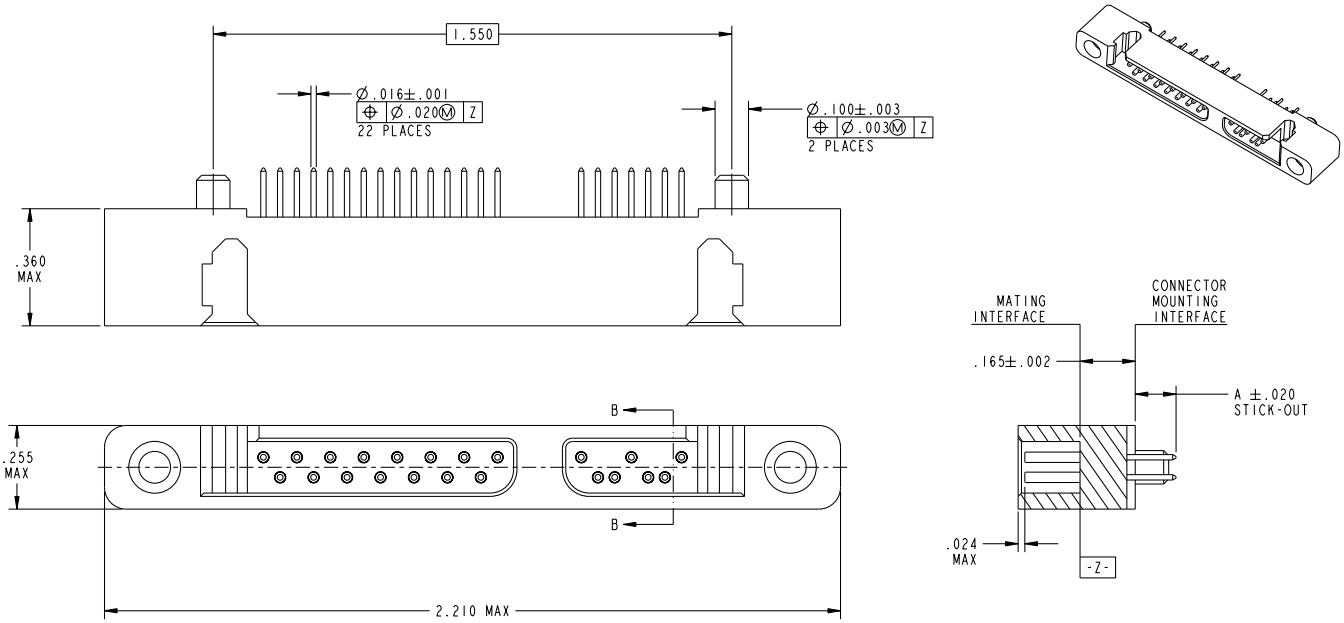
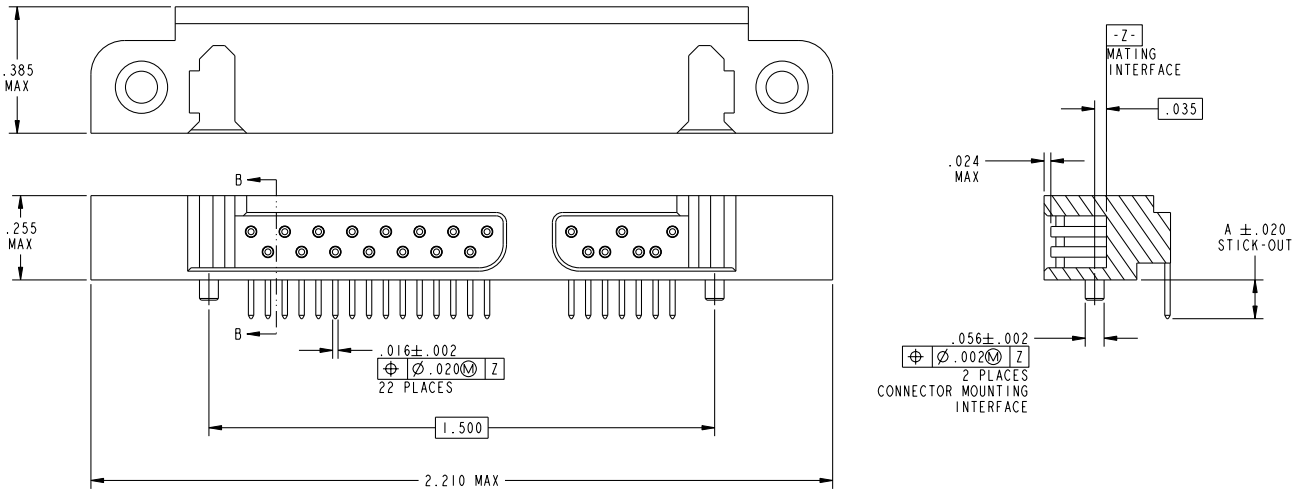
## Combo 22 Pin Straight Receptacle




## Combo 22 Pin Right Angle Receptacle





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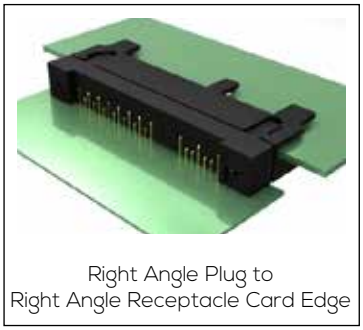
## PDS-240-3

## R-SATA Combo 22 Pin Surface Mount Configuration

End to End Boards



Right Angle Plug to Right Angle Receptacle Card Edge

End to End Boards

Right Angle Plug to Right Angle Receptacle Surface Mount

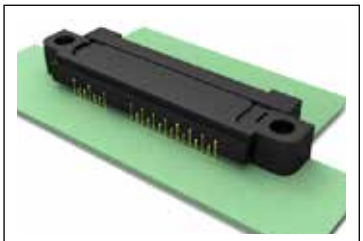
End to End Boards

Right Angle Plug Surface Mount to Right Angle Receptacle Card Edge

End to End Boards

Right Angle Plug Surface Mount to Right Angle Receptacle Surface Mount

End to End Boards



Right Angle Plug Surface Mount to Right Angle Receptacle

Boards at Right Angle

Right Angle Plug Surface Mount to Straight Receptacle

Boards at Right Angle

Straight Plug to Right Angle Receptacle Card Edge

Boards at Right Angle

Straight Plug to Right Angle Receptacle Surface Mount

## How to Order - Combo 22 Pin Surface Mount Configurations

| 1. Series | 2. Body Style | 3. Contacts |
|---|---|---|
| RS | RRSM | 22 |

| SERIES | |
|---|---|
| RS | R-SATA |

| BODY STYLE | |
|---|---|
| PRSM | Plug, Right Angle, Surface Mount |
| RRSM | Receptacle, Right Angle, Surface Mount |
| RRCE | Receptacle, Right Angle, Card Edge |

| CONTACTS | |
|---|---|
| 22 | 22 Contacts |

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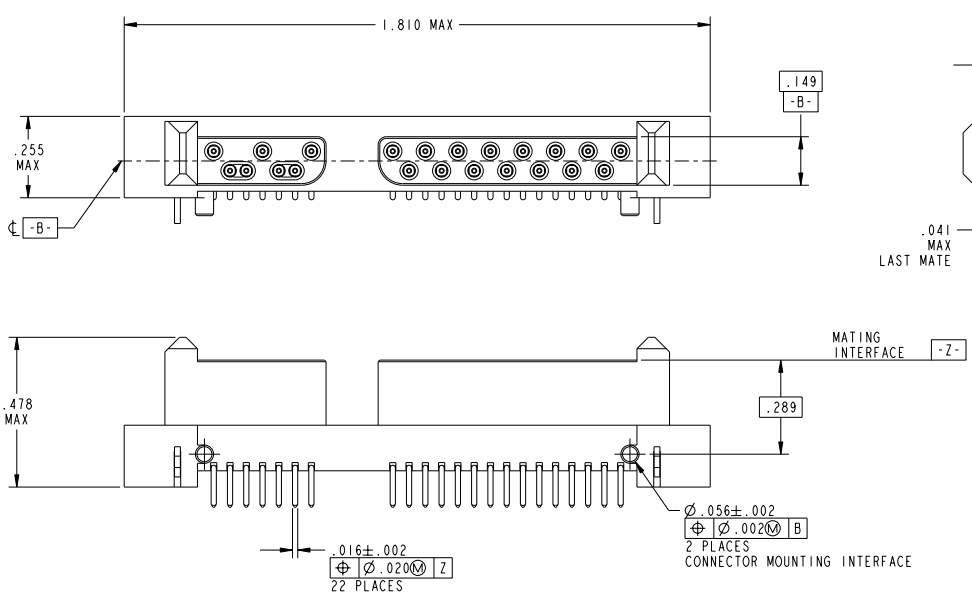
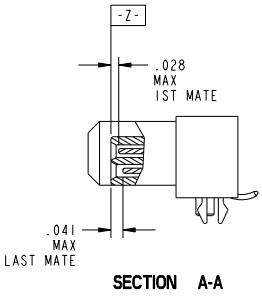
## Combo 22 Pin Surface Mount Right Angle Plug

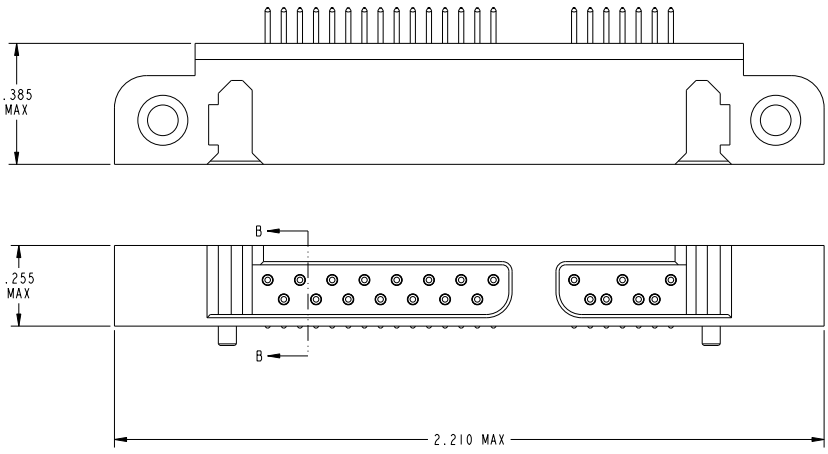


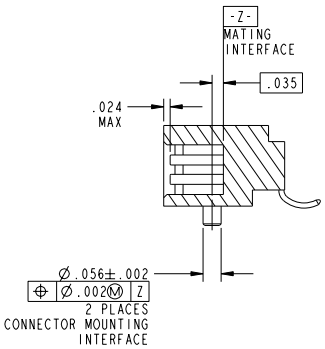




SECTION A-A

Foot print compatible with 3M Part # 5622-1200-ML

## Combo 22 Pin Surface Mount Right Angle Receptacle

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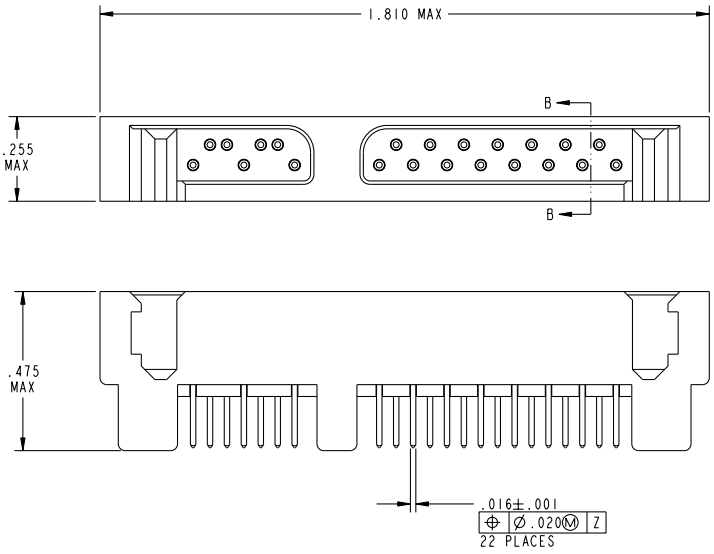
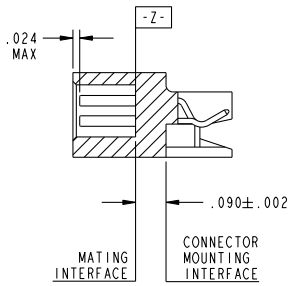
# PDS-240-3

## Combo 22 Pin Right Angle Receptacle Card Edge




Foot print compatible with 3M Part # 5622-6309-ML

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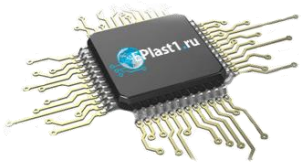
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- 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:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.




**Как с нами связаться**

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