



**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.

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### 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



### 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 |
|-----------|---------------|-------------|----------------|
| <b>RS</b> | <b>RRA</b>    | <b>07</b>   | <b>0702</b>    |

| SERIES    |        |
|-----------|--------|
| <b>RS</b> | R-SATA |

| BODY STYLE |                         |
|------------|-------------------------|
| <b>PRA</b> | Plug, Right Angle       |
| <b>PST</b> | Plug, Straight          |
| <b>RRA</b> | Receptacle, Right Angle |
| <b>RST</b> | Receptacle, Straight    |

| CONTACTS  |             |
|-----------|-------------|
| <b>07</b> | 7 Contacts  |
| <b>22</b> | 22 Contacts |

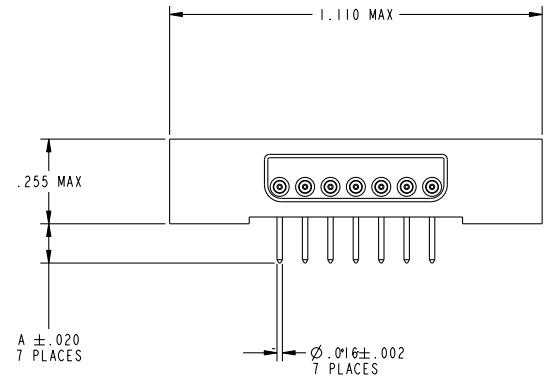
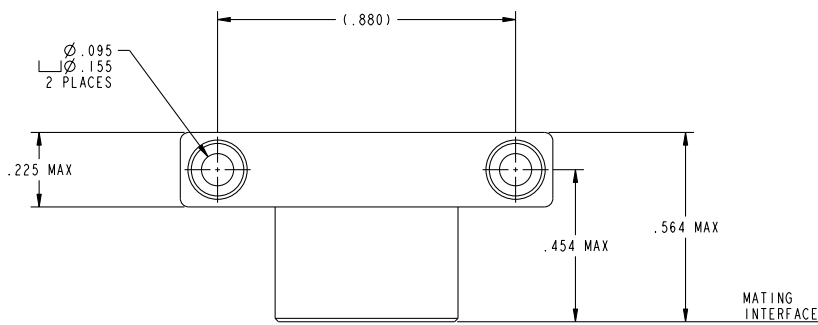
| TERMINATION |                                 |
|-------------|---------------------------------|
| <b>0702</b> | PCB .070" Stickout, AU/Ni       |
| <b>0706</b> | PCB .070" Stickout, AU/Ni-Sn/Pb |
| <b>0852</b> | PCB .085" Stickout, AU/Ni       |
| <b>0856</b> | PCB .085" Stickout, AU/Ni-Sn/Pb |
|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

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

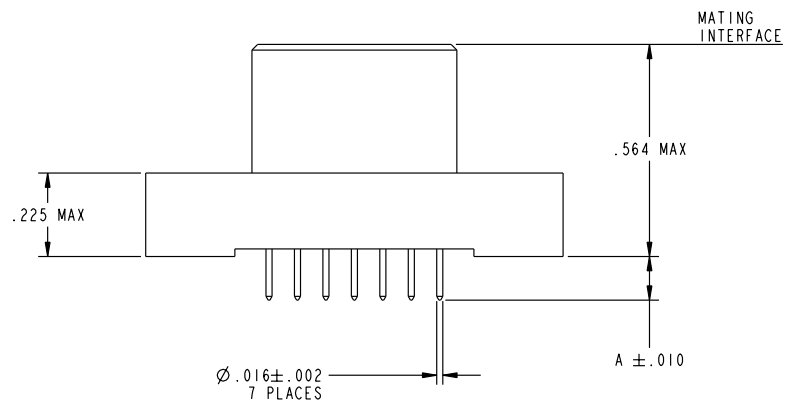
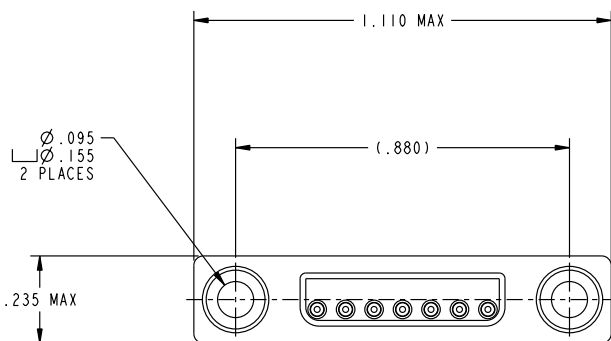


## PDS-240-3

### 7 Pin Right Angle Plug



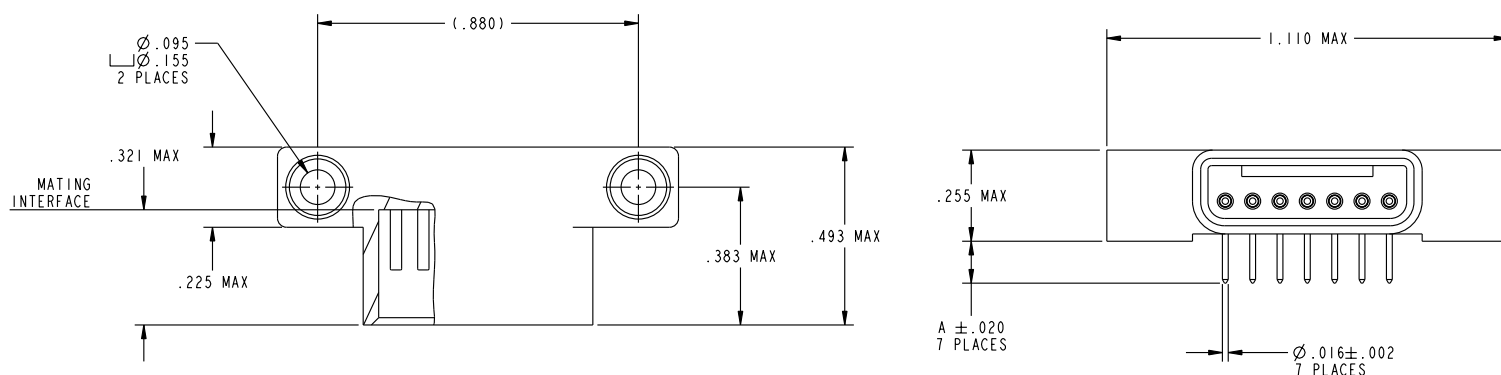
### 7 Pin Straight Plug



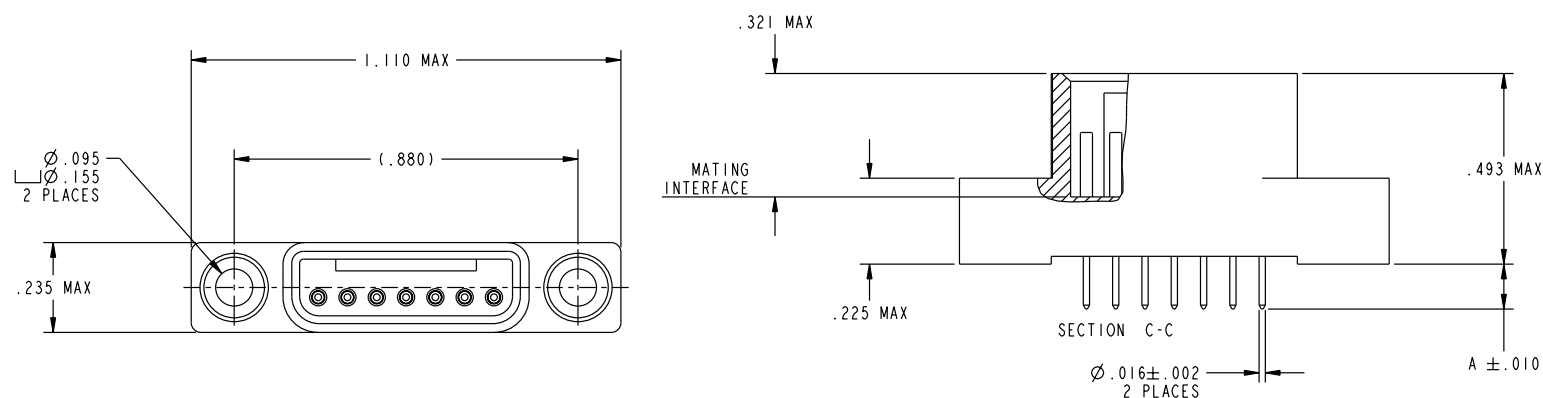


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### 7 Pin Right Angle Receptacle



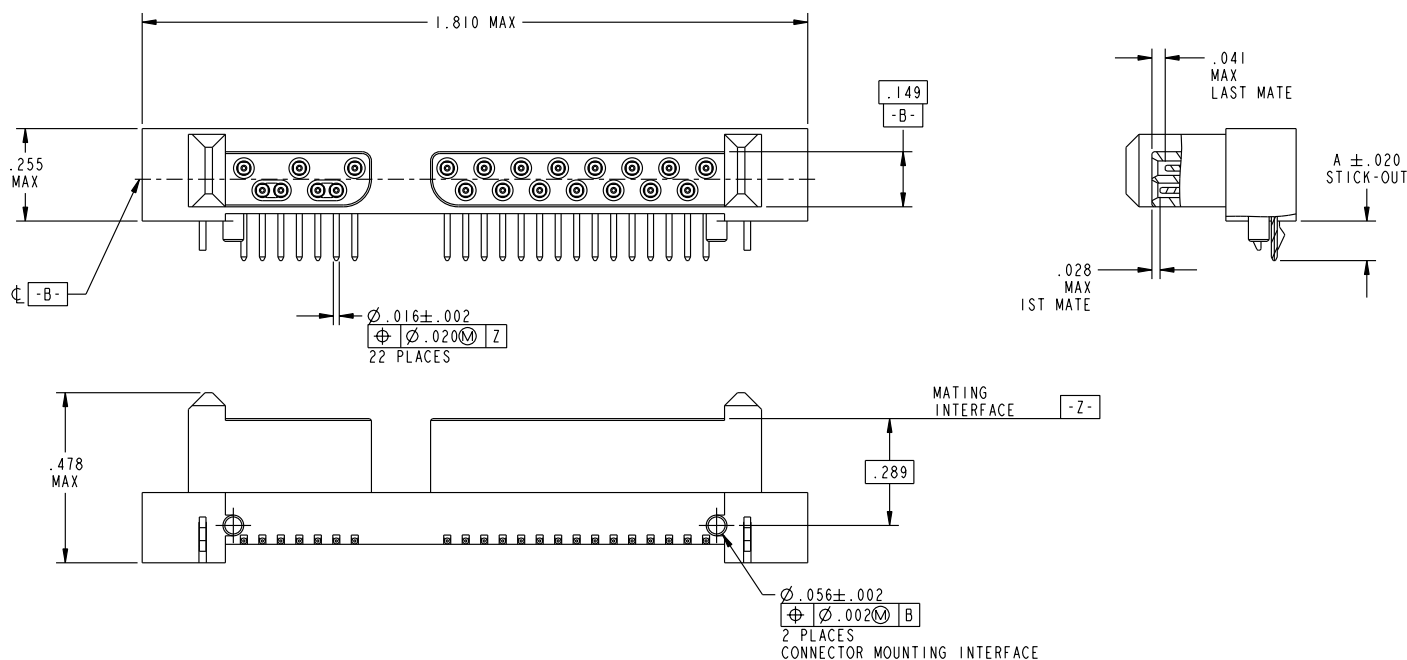
### 7 Pin Straight Receptacle



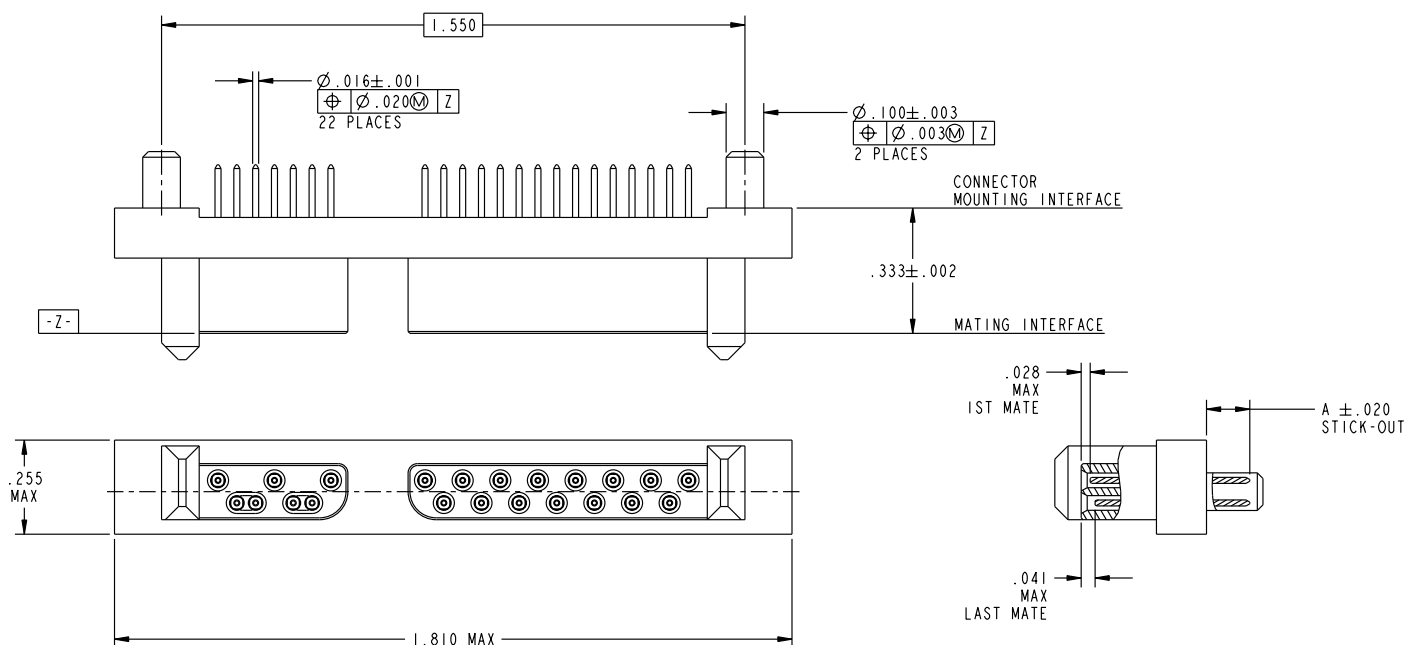


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## Combo 22 Pin Right Angle Plug



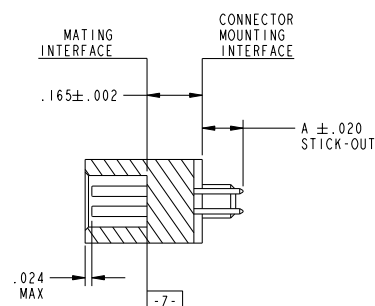
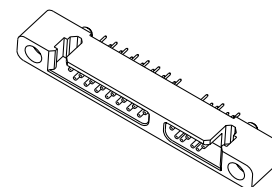
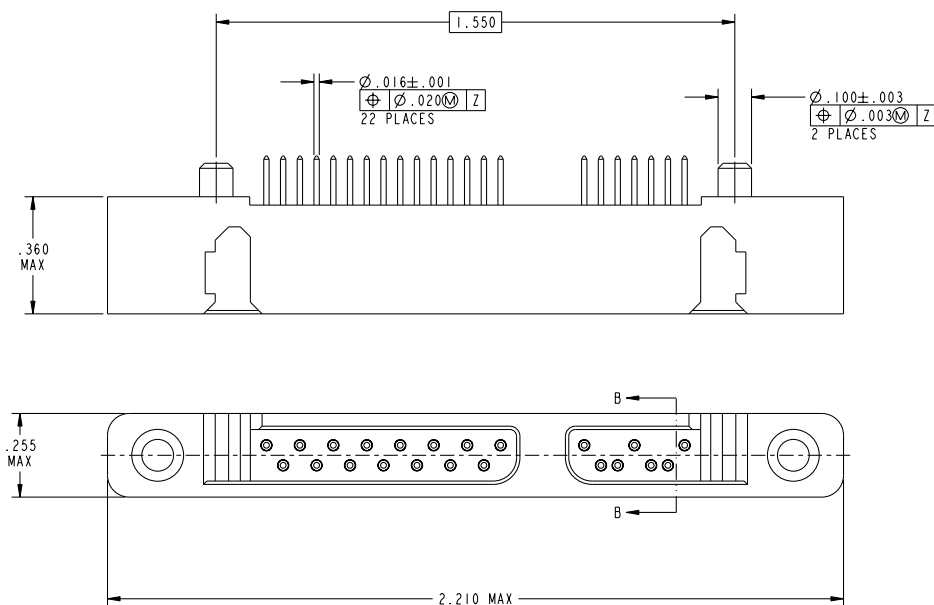
## Combo 22 Pin Straight Plug



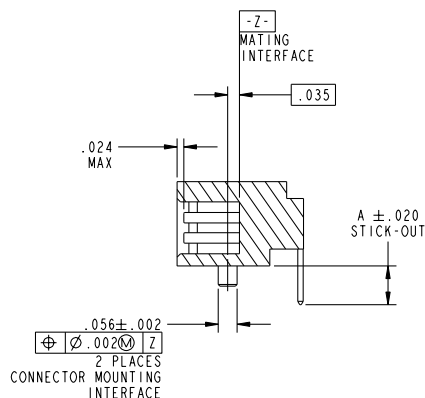
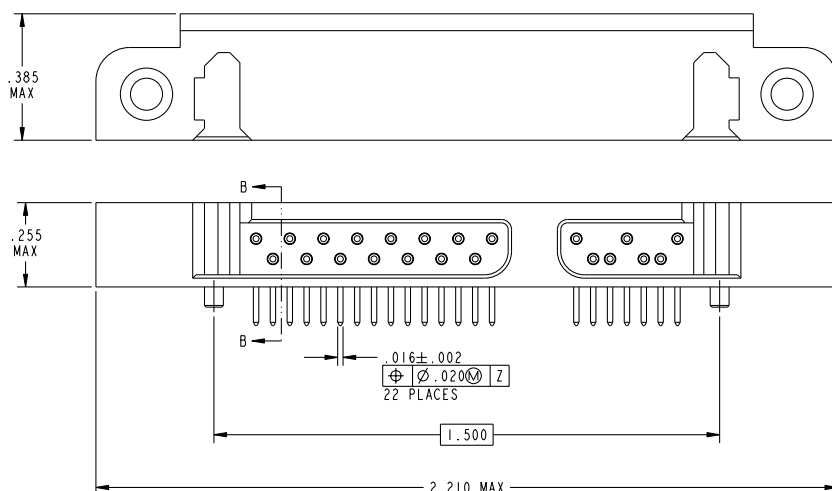


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### Combo 22 Pin Straight Receptacle



### Combo 22 Pin Right Angle Receptacle

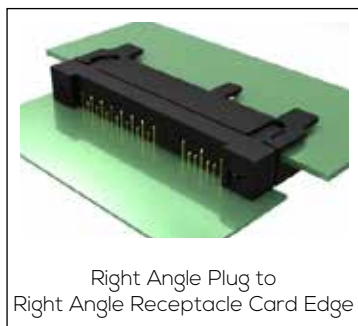




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### R-SATA Combo 22 Pin Surface Mount Configuration

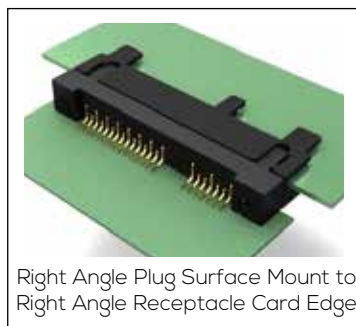
End to End Boards



End to End Boards



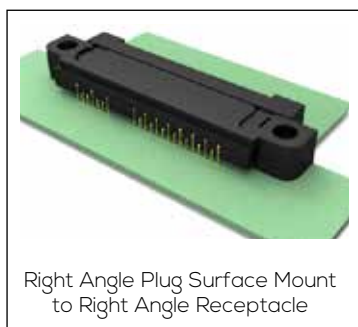
End to End Boards



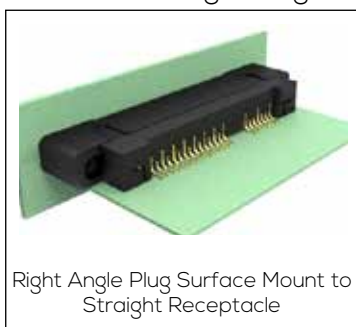
End to End Boards



End to End Boards



Boards at Right Angle



Boards at Right Angle



Boards at Right Angle



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

| 1. Series | 2. Body Style | 3. Contacts |
|-----------|---------------|-------------|
| <b>RS</b> | <b>RRSM</b>   | <b>22</b>   |

| SERIES    |        |
|-----------|--------|
| <b>RS</b> | R-SATA |

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

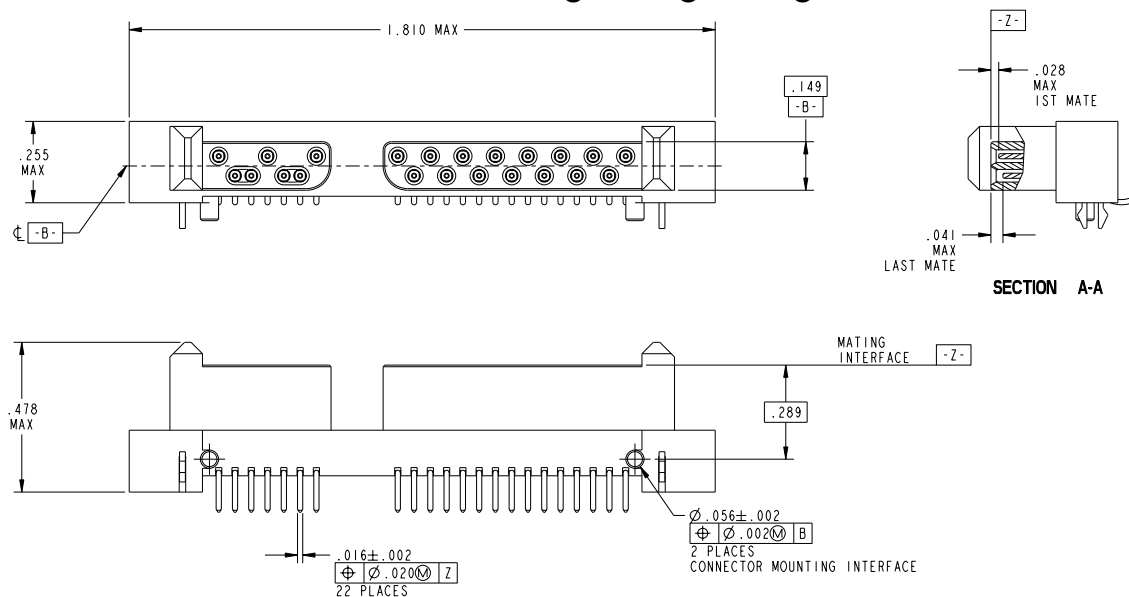
  

| CONTACTS  |             |
|-----------|-------------|
| <b>22</b> | 22 Contacts |



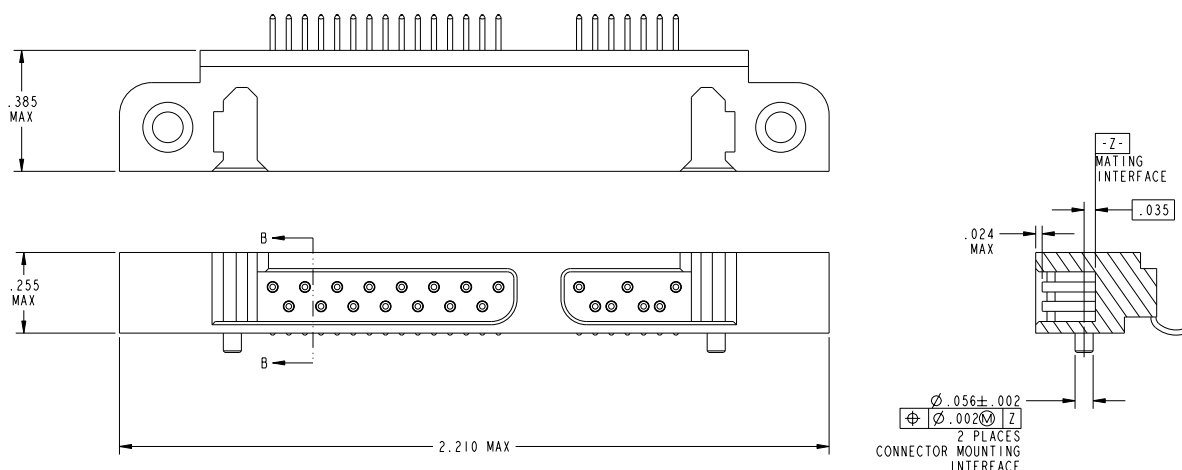
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## Combo 22 Pin Surface Mount Right Angle Plug



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

## Combo 22 Pin Surface Mount Right Angle Receptacle

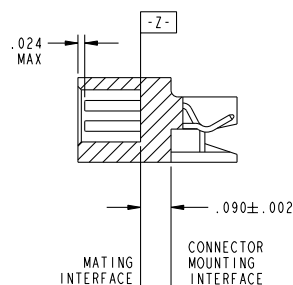
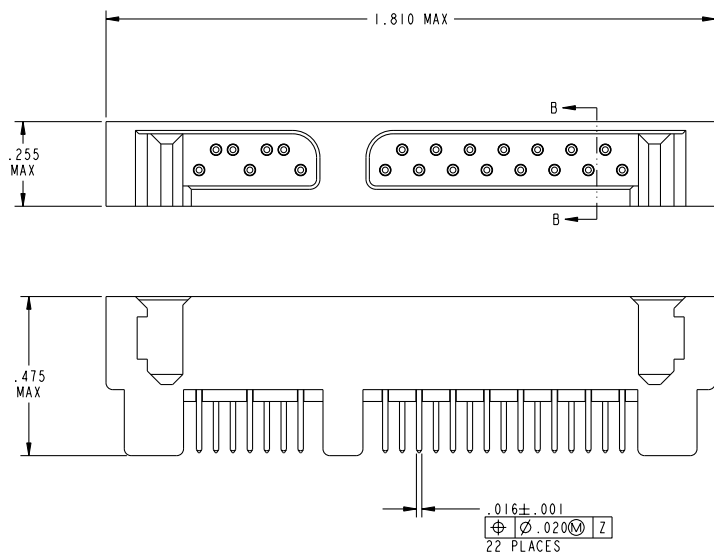






**PDS-240-3**

## Combo 22 Pin Right Angle Receptacle Card Edge



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

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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