Amphenol® Aerospace

R-SATA
Speeds to 6.25 Gb/s +

PDS-240-3

R-SATA CONNECTORS

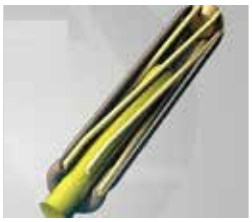
The new (Rugged) R-SATA style connector is perfectly suited as the primary internal storage interconnect for desktop and mobile PCs, connecting the system to peripherals such as hard drives, solid state drives, optical drives, and removable magnetic media drives.

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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Phone: 800-678-0141

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

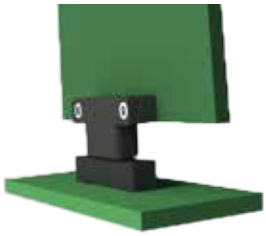
End to End Boards

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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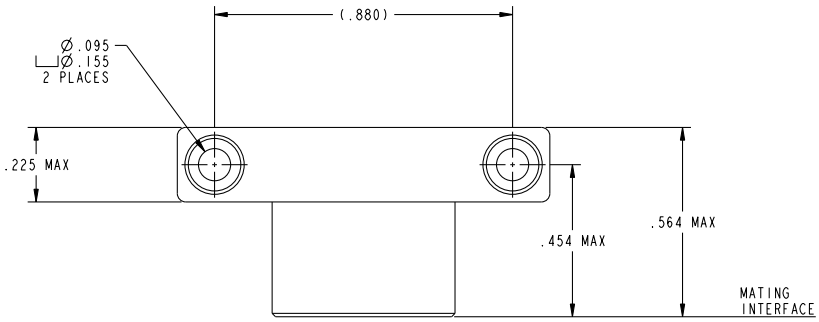
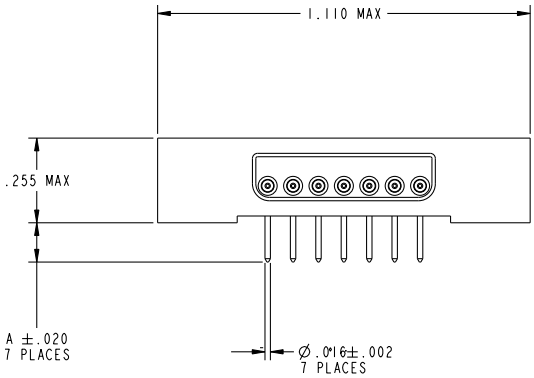
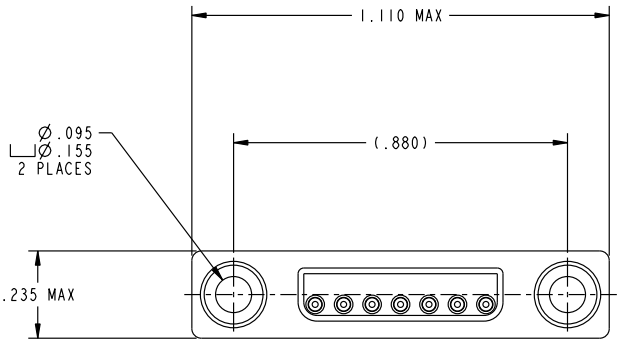
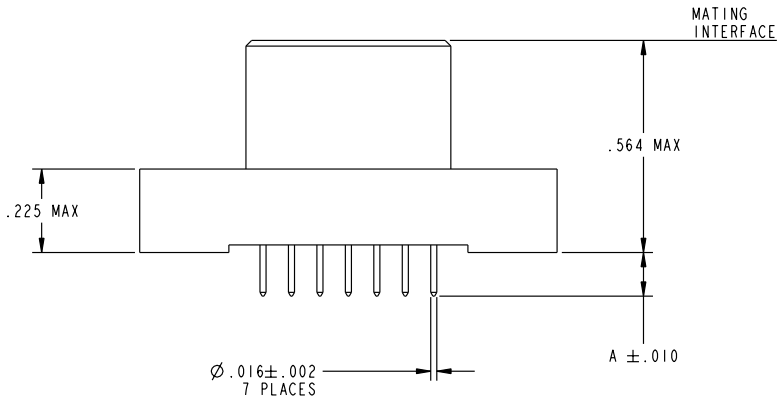
7 Pin Right Angle Plug





7 Pin Straight Plug





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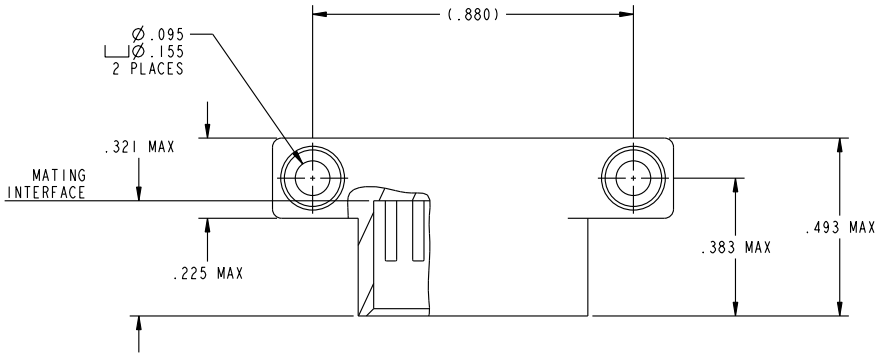
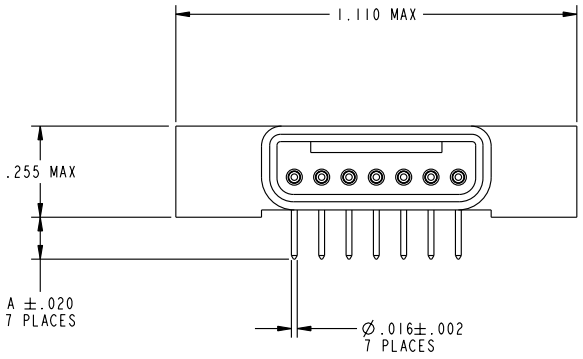
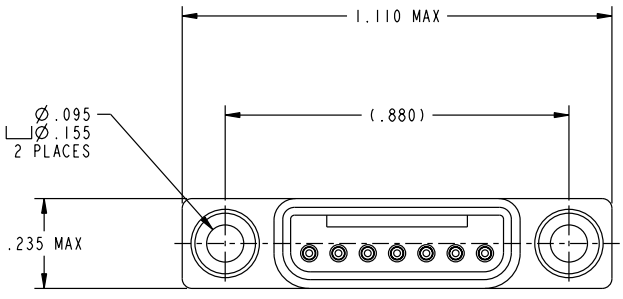
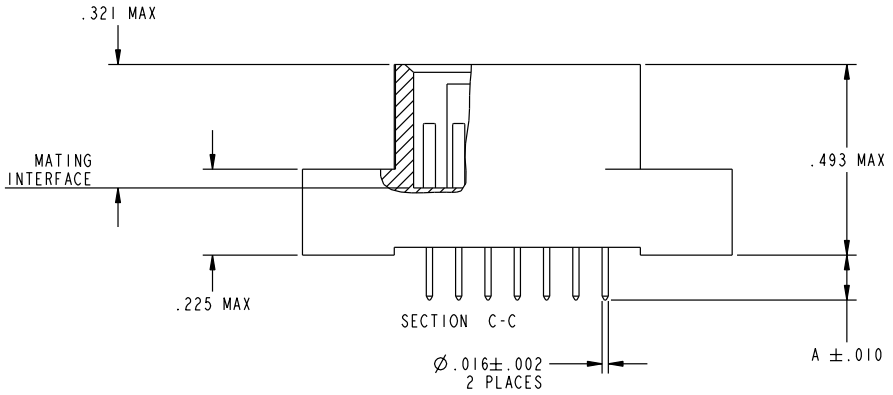
7 Pin Right Angle Receptacle





7 Pin Straight Receptacle





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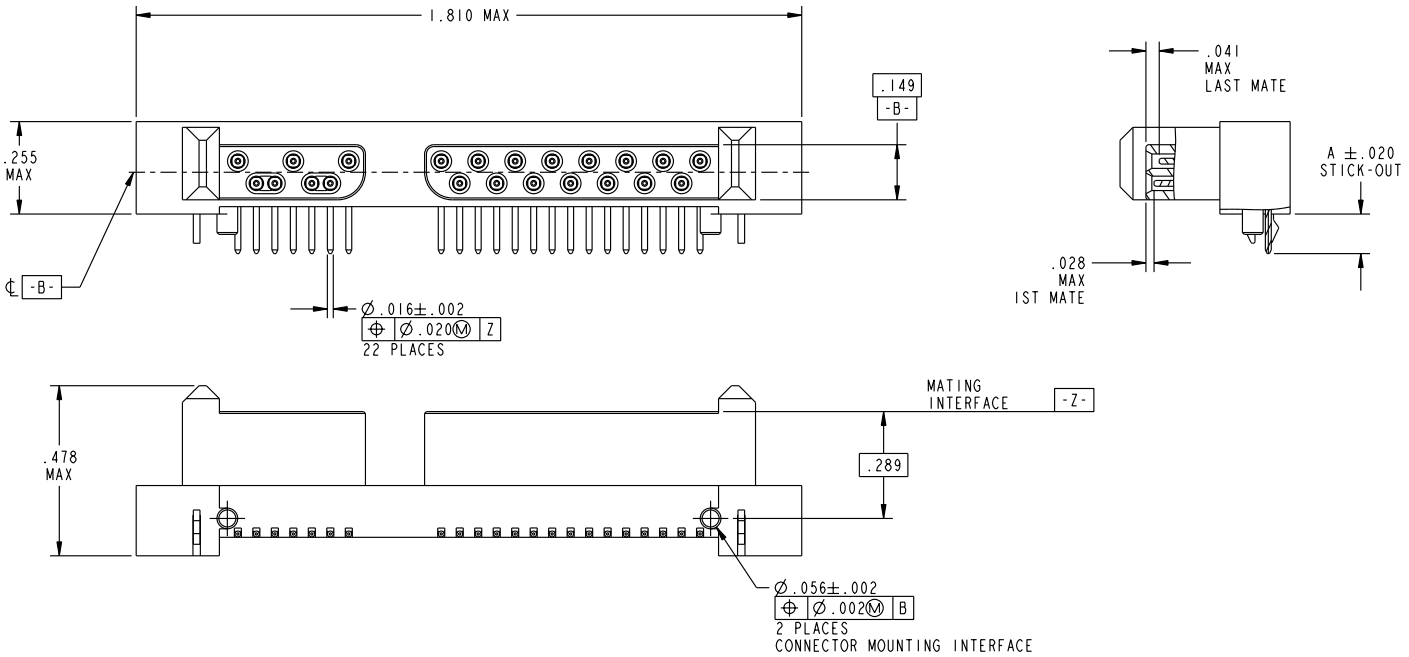
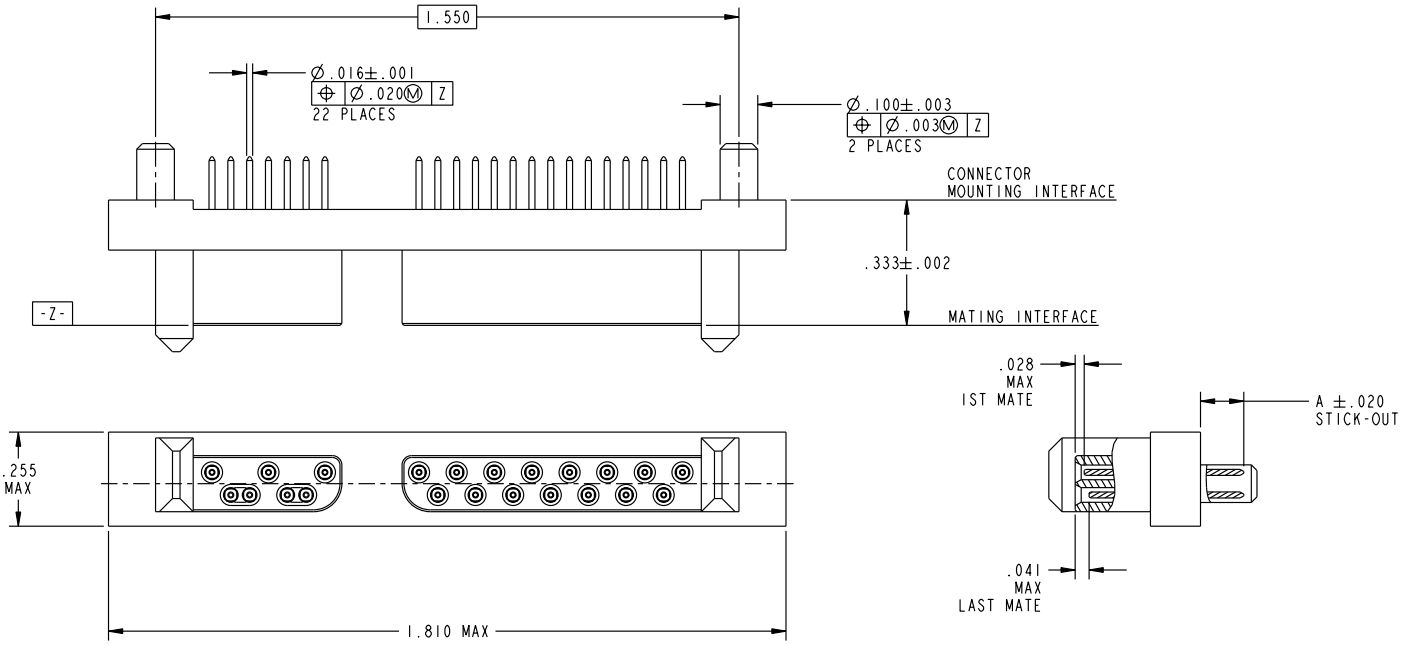
Combo 22 Pin Right Angle Plug



Combo 22 Pin Straight Plug



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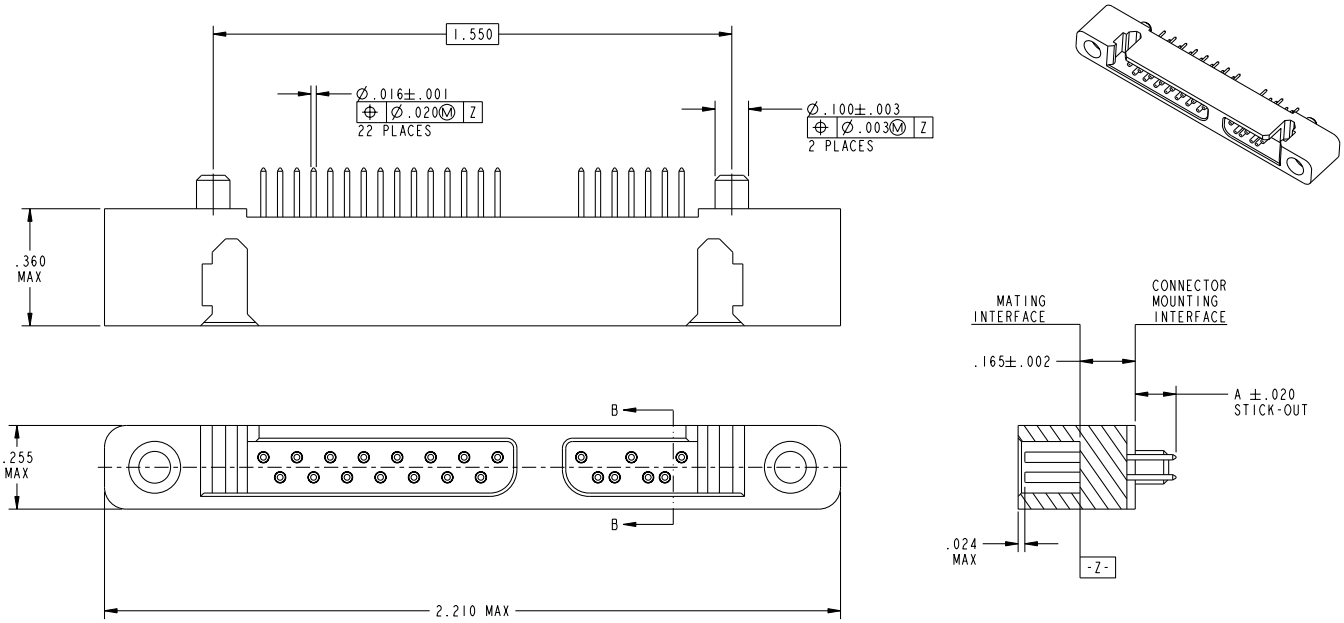
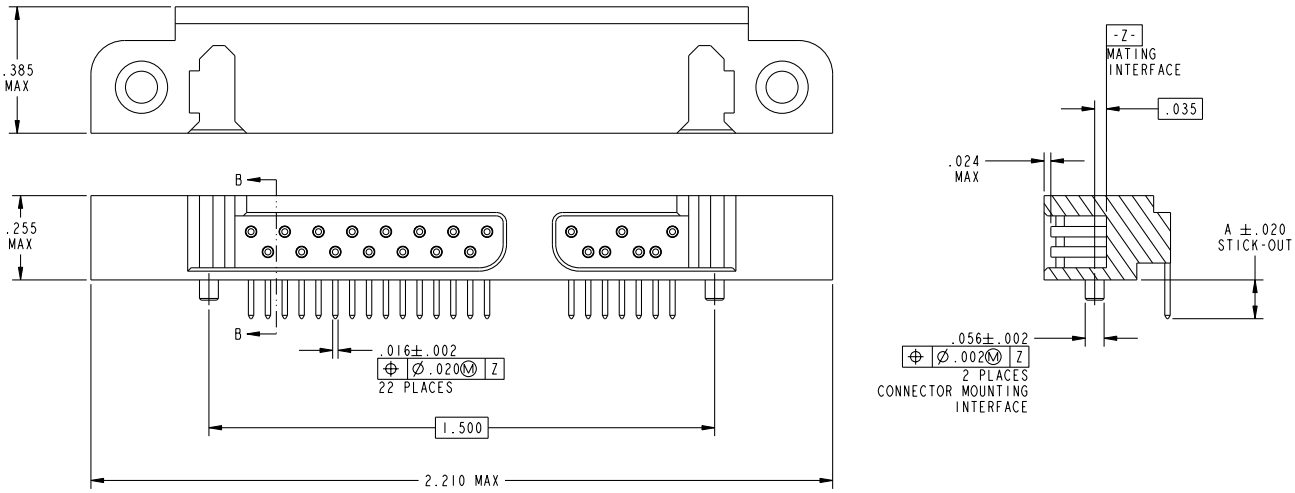
Combo 22 Pin Straight Receptacle



Combo 22 Pin Right Angle Receptacle



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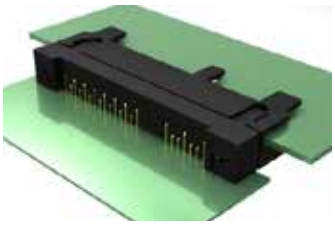
R-SATA Combo 22 Pin Surface Mount Configuration

End to End Boards



Right Angle Plug to Right Angle Receptacle Card Edge

End to End Boards

Right Angle Plug to Right Angle Receptacle Surface Mount

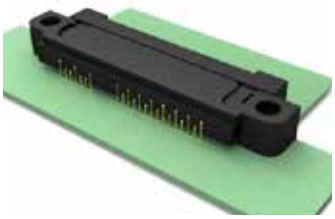
End to End Boards

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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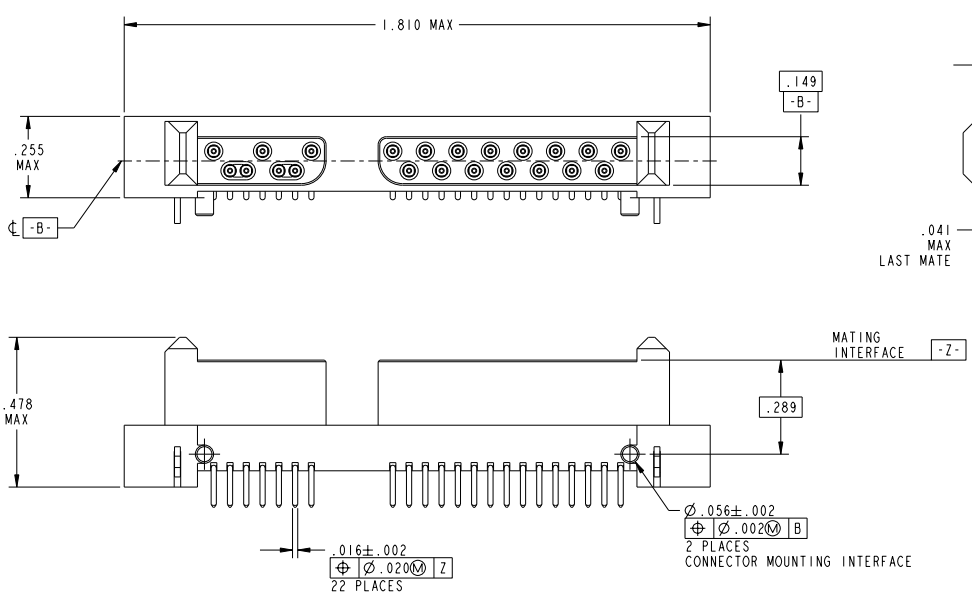
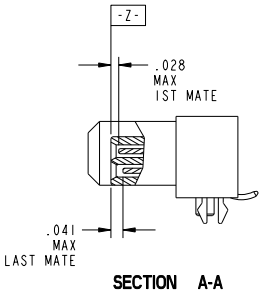
Combo 22 Pin Surface Mount Right Angle Plug

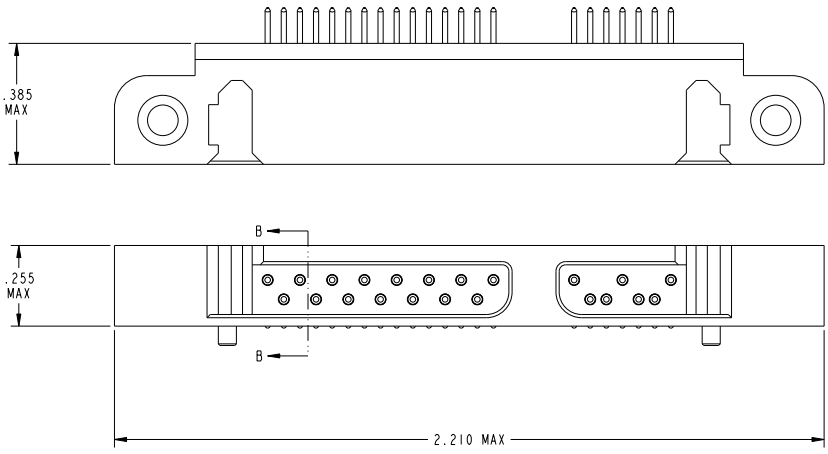


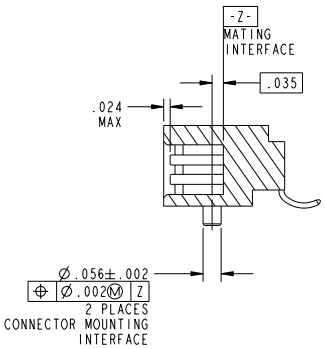


SECTION A-A

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

Combo 22 Pin Surface Mount Right Angle Receptacle





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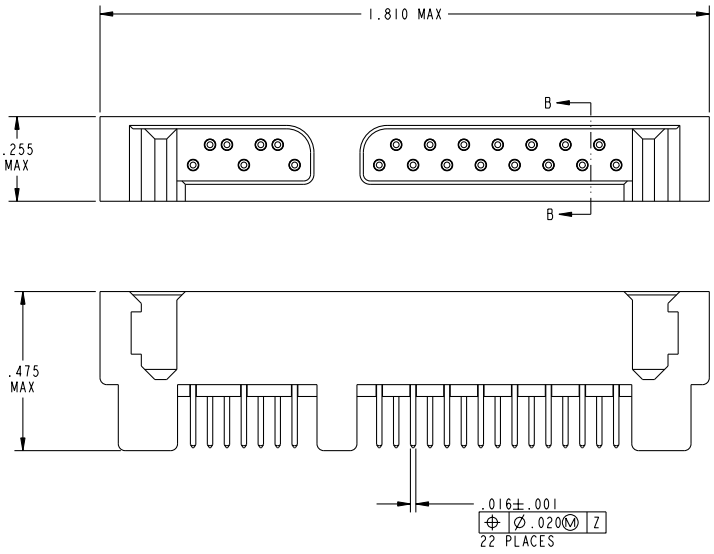
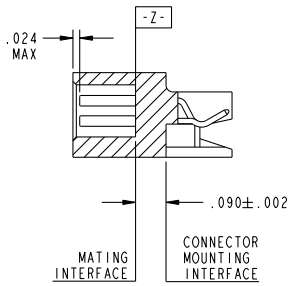
Combo 22 Pin Right Angle Receptacle Card Edge





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

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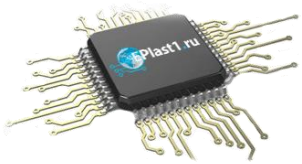
Наши преимущества:

- 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.