



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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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

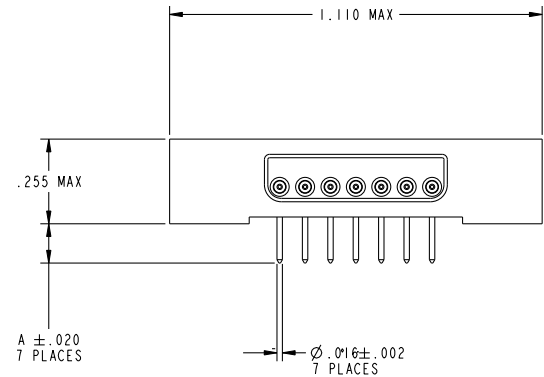
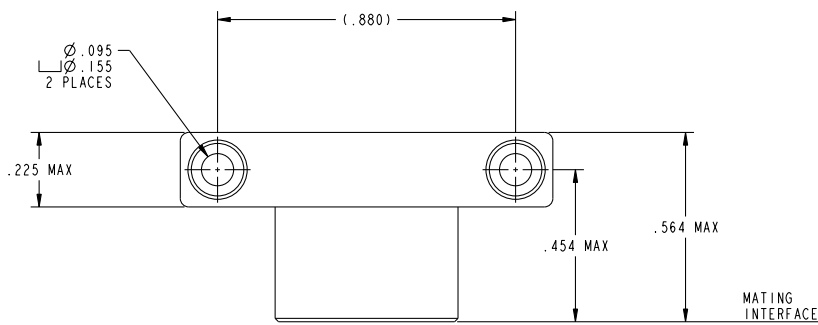
TERMINATION	
0702	PCB .070" Stickout, AU/Ni
0706	PCB .070" Stickout, AU/Ni-Sn/Pb
0852	PCB .085" Stickout, AU/Ni
0856	PCB .085" Stickout, AU/Ni-Sn/Pb
1002	PCB .100" Stickout, AU/Ni
1006	PCB .100" Stickout, AU/Ni-Sn/Pb
1152	PCB .115" Stickout, AU/Ni
1156	PCB .115" Stickout, AU/Ni-Sn/Pb

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

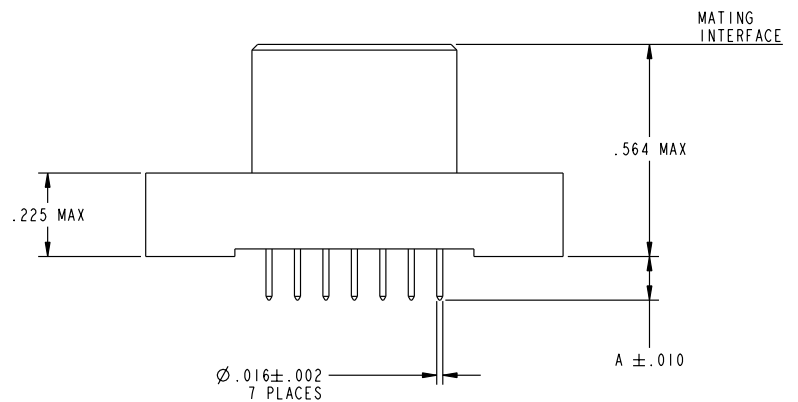
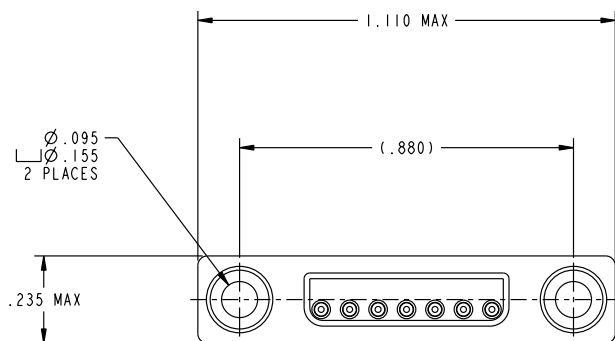


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7 Pin Right Angle Plug



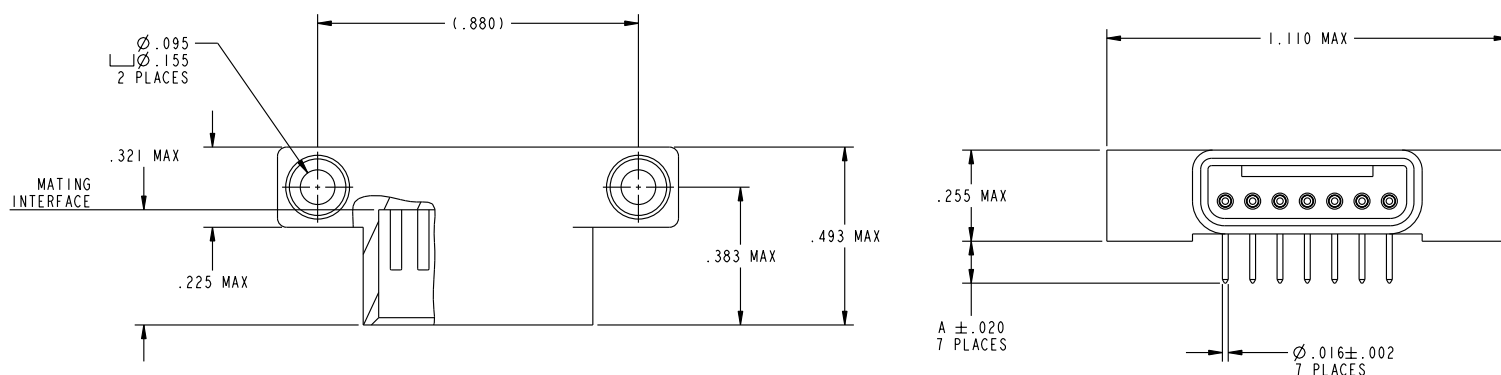
7 Pin Straight Plug



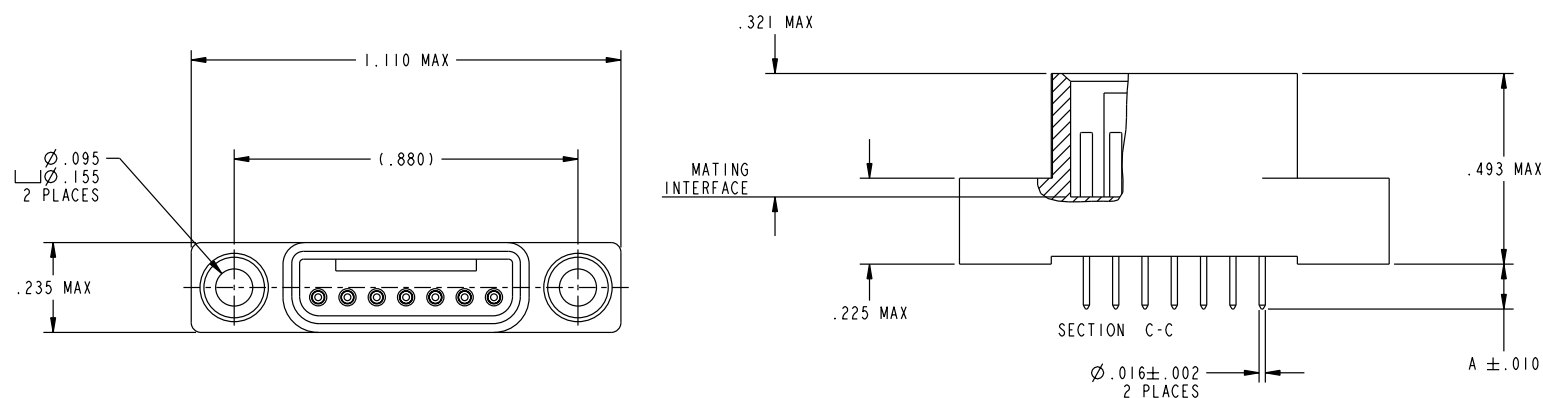


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7 Pin Right Angle Receptacle



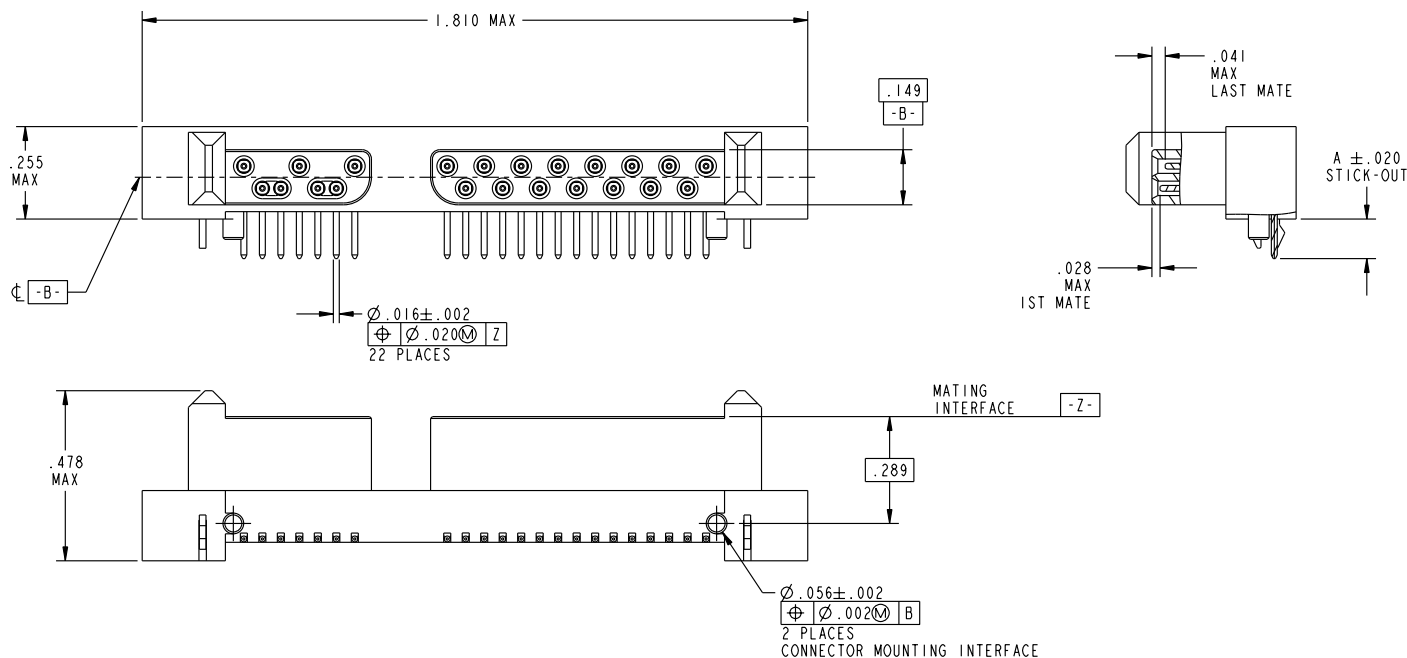
7 Pin Straight Receptacle



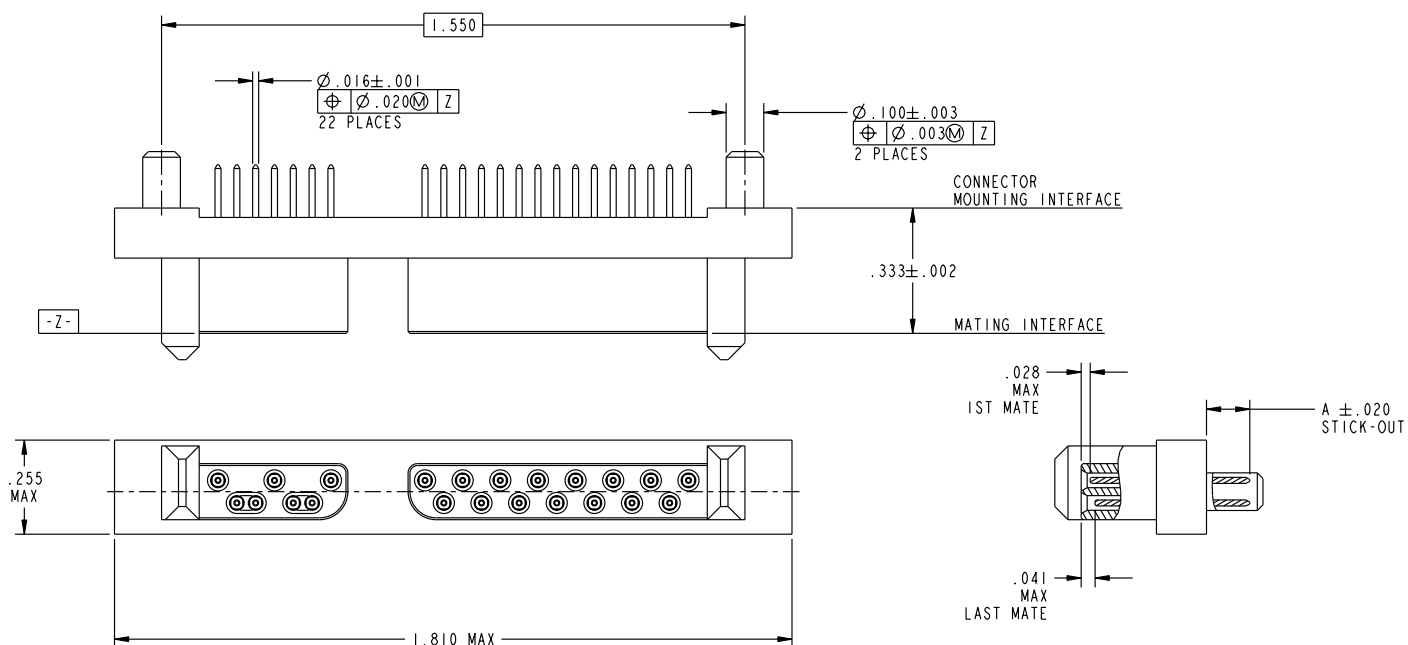


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Combo 22 Pin Right Angle Plug



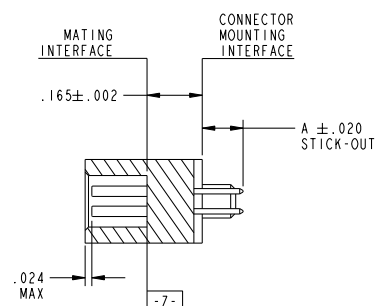
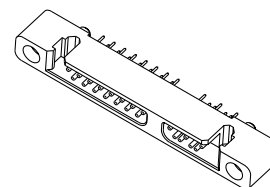
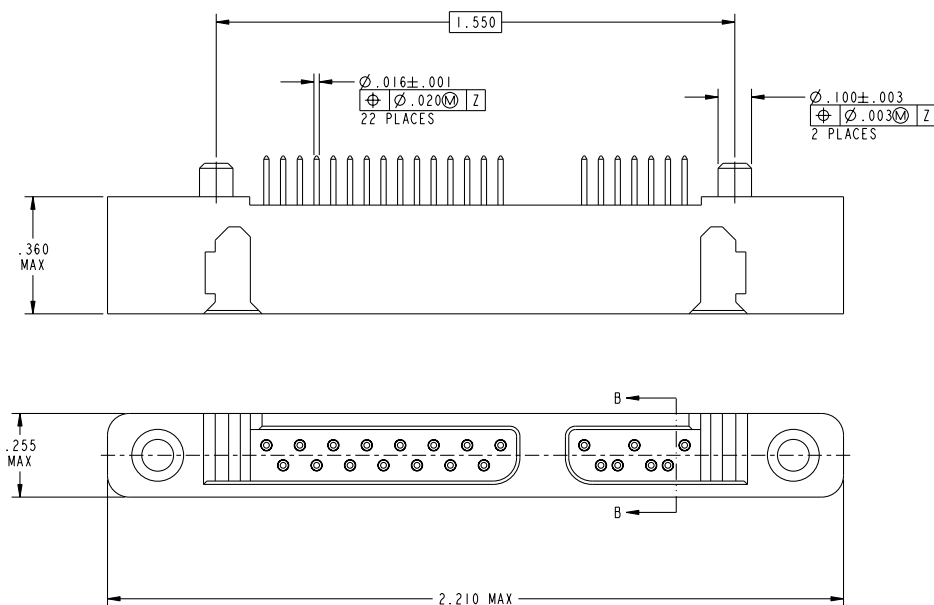
Combo 22 Pin Straight Plug



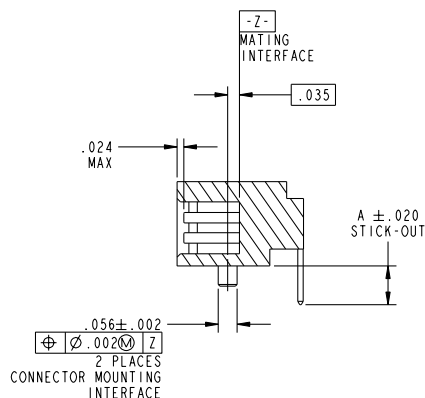
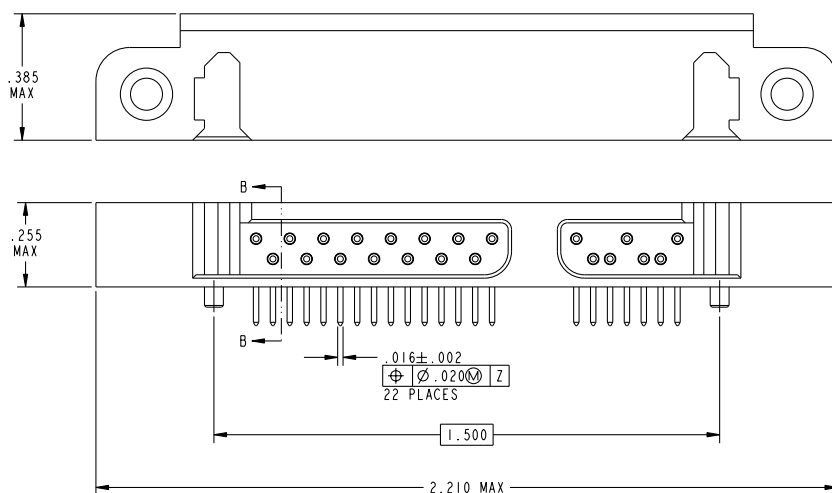


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Combo 22 Pin Straight Receptacle



Combo 22 Pin Right Angle Receptacle

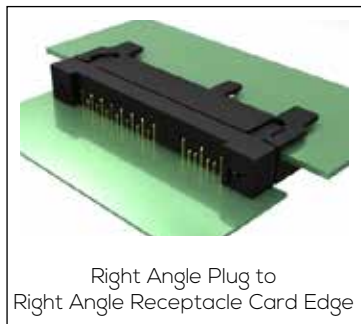




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R-SATA Combo 22 Pin Surface Mount Configuration

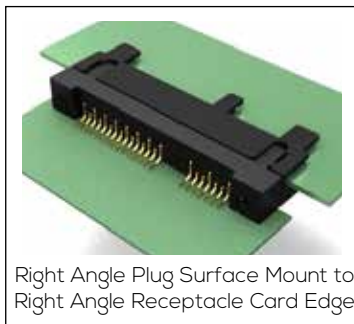
End to End Boards



End to End Boards



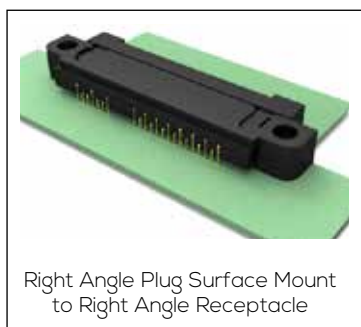
End to End Boards



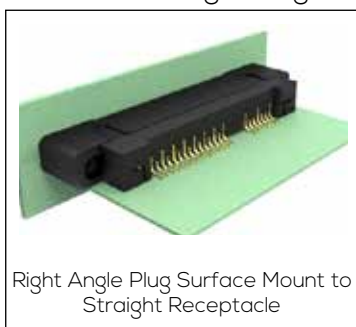
End to End Boards



End to End Boards



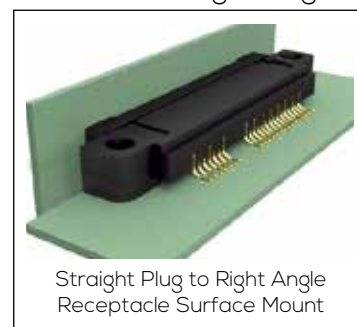
Boards at Right Angle



Boards at Right Angle



Boards at Right Angle



How to Order - Combo 22 Pin Surface Mount Configurations

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

SERIES	
RS	R-SATA

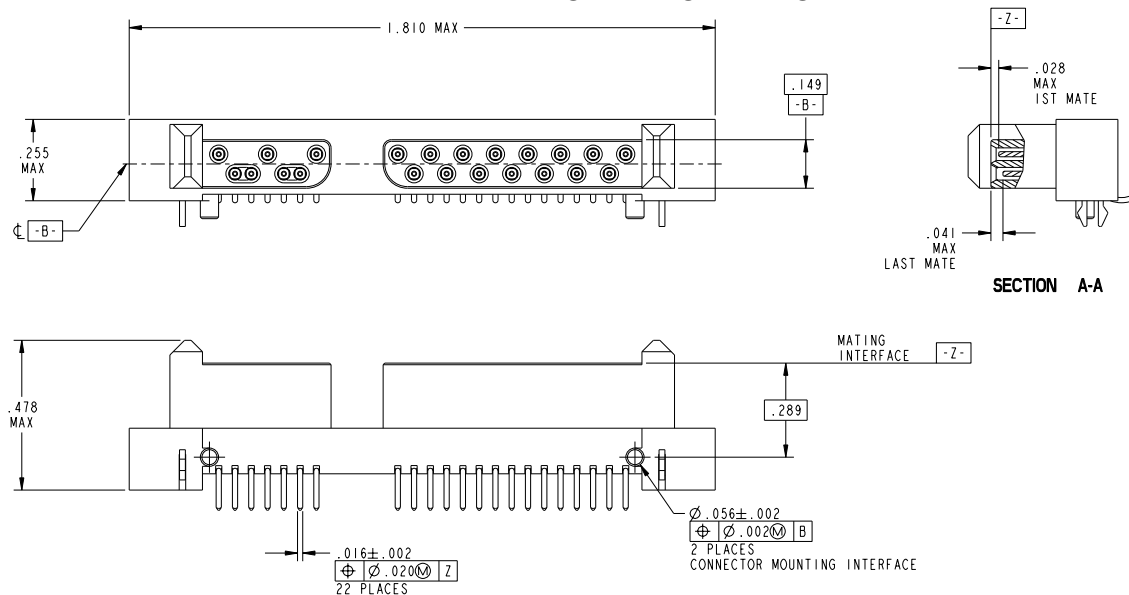
CONTACTS	
22	22 Contacts

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



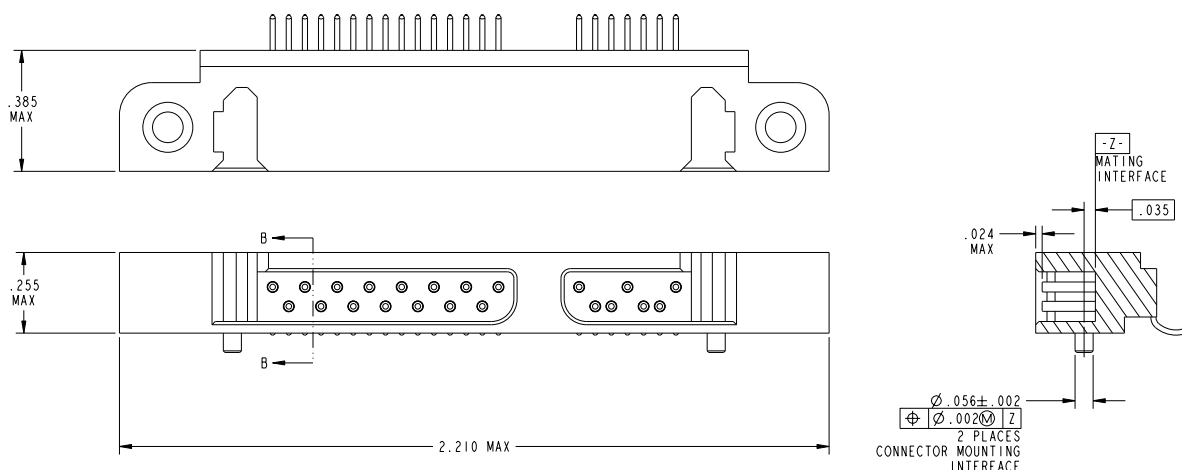
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Combo 22 Pin Surface Mount Right Angle Plug



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

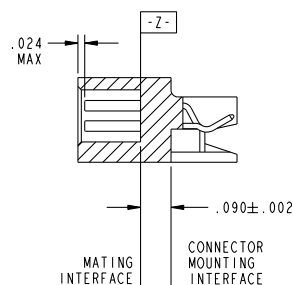
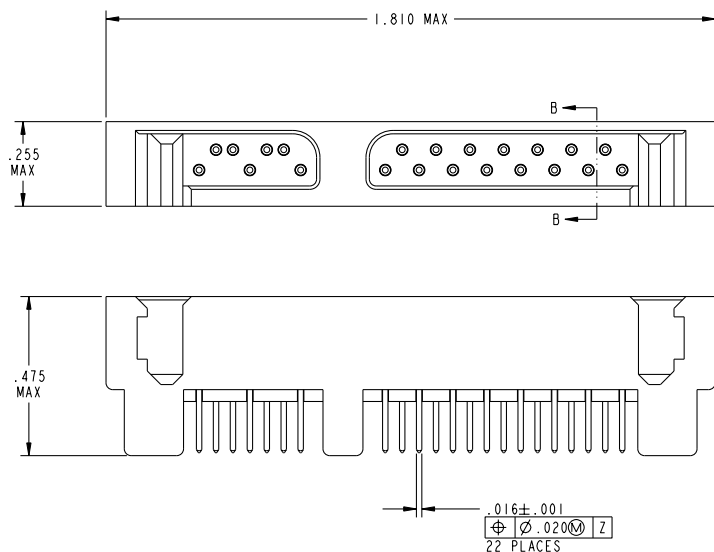
Combo 22 Pin Surface Mount Right Angle Receptacle





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Combo 22 Pin Right Angle Receptacle Card Edge



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