



1.50mm (.059") Pitch Plateau HS Dock™ High Speed Docking Connectors

75018 Right Angle Plug

**75019 Right Angle
Receptacle**

75126 Interposer Assembly

75140 Vertical Plug

High Speed Docking Connectors Feature an Innovative Plated Plastic Housing for Outstanding Performance and Multiple Options for Application Design Flexibility

Molex utilizes its proprietary Plateau Technology™ (plated gold housing) to create a high speed docking connector system for differential and single-ended applications. This fully shielded connector has a robust contact design that features four levels of mating (first-mate/last-break) with a compliant pin for the PCB interface. With a low mating force, guide features, various offset heights, and the ability to mate in a standard or inverted position, this high speed docking connector system is ideal for PCB blade (option card) to PCB mid-plane (host) applications. The Plateau HS Dock product family also includes vertical plug and interposer assembly products for further application design flexibility.

With these versatile features, many telecommunications equipment and computer server customers have chosen Molex's Plateau HS Dock for their current and future high speed docking connector requirements.

Features and Benefits

- Plated plastic housing provides ESD housing ground and low crosstalk
- Various offset heights (from top of PCB) provide application design flexibility
- 144, 120, 108 and 72 circuit sizes available allow design options for differential signaling
- Insert molded terminals provide robust and reliable contact interface
- Compliant pin provides advantages versus through hole and SMT
- Guide features ensure proper mating and first-mate/last-break
- Four levels of mating support hot pluggable applications



SPECIFICATIONS

Reference

Packaging: Tray
UL File No.: E29179
CSA File No.: 1373502
Designed In: Millimeters

Electrical

Voltage: 12V DC
Current: Available in both 1.5A and 2.75A
Contact Resistance: 30 mΩ max.
Dielectric Withstanding Voltage: 500V AC
Insulation Resistance: 1,000 MΩ min.

Mechanical

Insertion Force to PCB: 35N max. per compliant pin
Retention Force to PCB: 9N min. per compliant pin
Mating Force: 80N max.
Unmating Force: 20N min.
Durability: 100 cycles

Physical

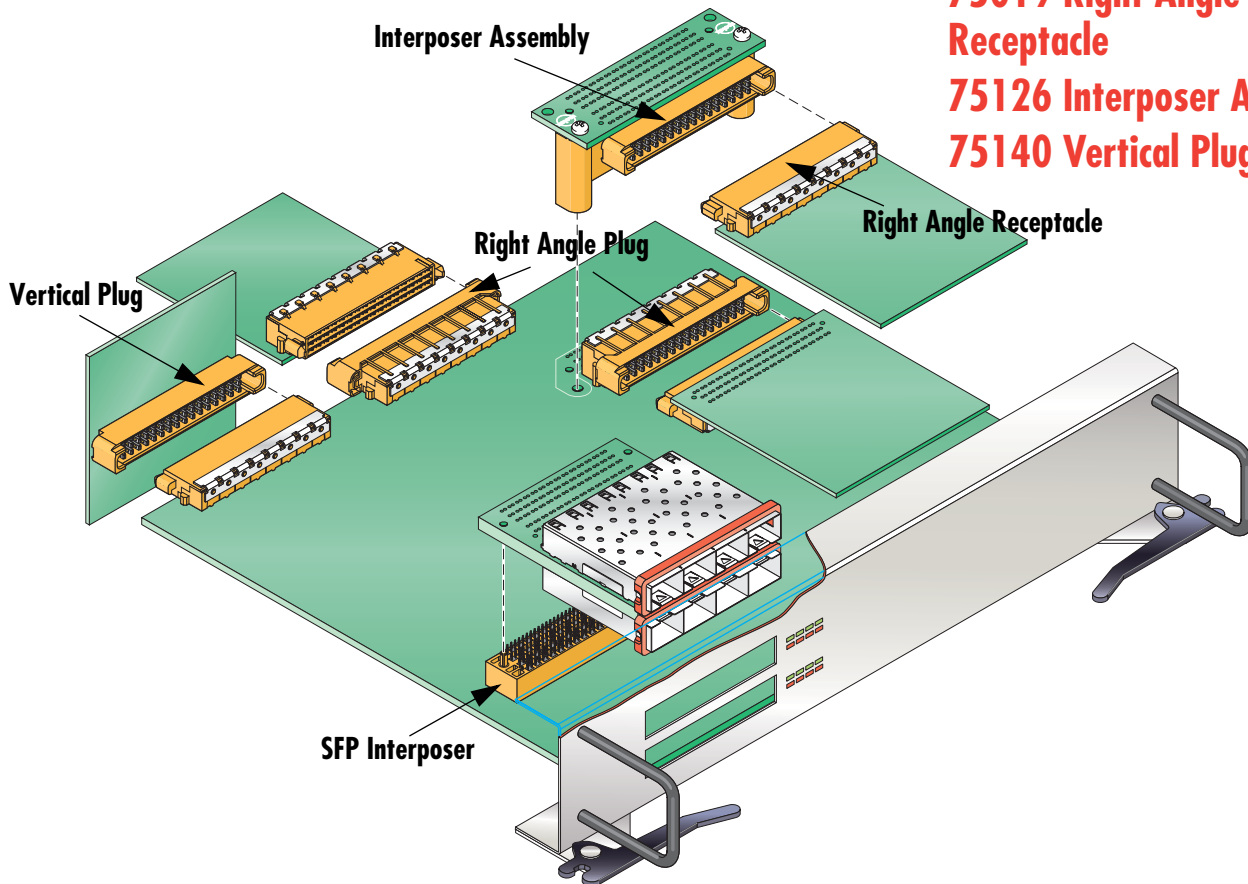
Housing: Liquid Crystal Polymer, UL 94V-0
Contact: Copper Alloy
Plating:
Contact Area -- Selective Gold 30μ" min.
Tail Area -- Tin
Underplating -- Nickel
PCB Thickness: 1.80 mm (.071")
Operating Temperature: -20 to +85° C

APPLICATIONS

- Telecommunication Equipment
 - Hubs, Routers and Switches
 - Add-in Cards To Mid-Plane Or Host PCB
- Computer Servers
 - Enterprise and Blade Servers

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75018 Right Angle Plug
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ORDERING INFORMATION

Order No.	Description	Circuit Options	Offset Heights
75018-0014	Right Angle Plug	108	5.74mm (.226")
75018-0016	Right Angle Plug	120	4.74mm (.187")
75018-0021	Right Angle Plug	144	4.74mm (.187")
75018-0022	Right Angle Plug	144	5.74mm (.226")
75018-0023	Right Angle Plug	144	8.74mm (.344")
75018-0024	Right Angle Plug	108	4.74mm (.187")
75018-0025	Right Angle Plug	108	8.74mm (.344")
75018-0100	Right Angle Unguided Plug	72	4.74mm (.187")
75019-0013	Right Angle Receptacle	108	4.74mm (.187")
75019-0014	Right Angle Receptacle	120	4.74mm (.187")
75019-0015	Right Angle Receptacle	144	4.74mm (.187")
75019-0016	Right Angle Receptacle	144	6.09mm (.240")
75019-0017	Right Angle Receptacle	108	6.09mm (.240")
75019-0100	Right Angle Unguided Receptacle	72	4.74mm (.187")
75126-1003	Interposer Assembly Plug	144	4.74mm (.187")
75126-2001	Interposer Assembly Plug	144	8.74mm (.344")
75140-0012	Vertical Plug	144	Not Applicable

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