molex

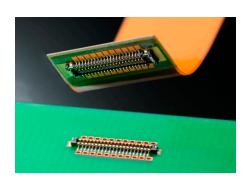
Ideal for the thinnest mobile devices, the SlimStackTM ST6 0.35mm pitch board-to-board connector system offers the smallest overall size of any similar pitch system along with robust features that provide secure mating retention, terminal protection and reliable electrical contact

Molex's new SlimStack ST6 series is an ultra-low-profile 0.35mm pitch board-to-board connector. This makes it ideal for the thinnest and most compact mobile applications such as mobile phones and tablet PCs.

The SlimStack ST6 system also incorporates a variety of robust mechanical and electrical features found in Molex's SlimStack ST7 and other versions to complement its space savings. These include a double friction lock system that helps ensure secure mating retention, which often becomes more of an issue as pitch and height shrink.

SlimStack[™] ST6 0.35mm Pitch SMT Board-to-Board Connectors

0.60mm Height 1.90mm Width



Molex ultra-low-profile SlimStack ST6 connectors

Features and Benefits

Saves space in tight-packaging applications
Removes flux contaminants for improved electrical contact
Provides secure PCB retention and protection in the event of zippering-style unmating
Enables secure mating retention force and additional electrical contact assurance
Provides additional mating retention assurance

Vacuum pick-and-place area on both plug and receptacle

Saves assembly time and expense versus kapton tape

Markets and Applications

- Mobile Device
 - Smart Phone
 - Mobile Phone
 - Tablet PC
 - Portable Audio
 - Portable Game Device
- > Digital Still Camera
- > Digital Video Camera
- > Any compact, handheld device



Smart Phone



Portable Audio Player



Digital Still Camera



Tablet PC



Specifications

REFERENCE INFORMATION

Designed In: mm Packaging: Embossed Tape ROHS Compliant: Yes

Halogen Status: Low Halogen

ELECTRICAL

Voltage: 50V max.
Current: 0.3A max.
Contact Resistance:
80 milliohms max.
Dielectric Withstanding Voltage:
250V AC (rms) for one minute
Insulation Resistance:
100 Megohms min.

MECHANICAL

Durability: 30 cycles

PHYSICAL

Housing: LCP, UL 94V-0, black

Contact: Copper Alloy

Plating:

Contact Area – Gold Solder Tail Area – Gold Underplating – Nickel

Operating Temperature: -40 to +850C

SlimStack[™] ST6 0.35mm Pitch SMT Board-to-Board Connectors

0.60mm Height 1.90mm Width

Additional Features

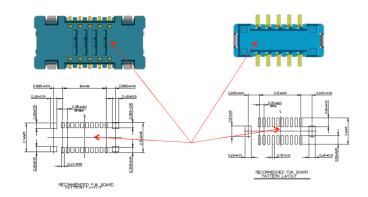
Cover Nail Design

Secure PCB retention and protection against damage in the event of zippering-style unmating

Secure PCB retention and protection against damage in the event of zippering-style unmating

Space-Saving PCB Design

Molded housing wall makes it possible to run tracing patterns underneath for space savings



Molded housing wall makes it possible to run tracing patterns underneath for space savings

Ordering Information

Order No.	Туре	Circuit Size
504455-4210	Receptacle	42
504459-4210	Plug	42