

Ideal for tight packaging applications such as digital still cameras, Molex's 0.40mm pitch right-angle board-to-board system offers the lowest profile and smallest pitch in the market in a new cost-effective design.

Molex's 0.40mm pitch right-angle SMT board-to-board system is the smallest of its kind in the industry. The system offers between 25-40% profile height savings compared to similar competitive versions. Molex has now expanded on its space-savings advantage with a new 503376 series plug that offers enhanced features such as nickel-barrier plating to protect against flux-wicking and a more cost-effective design.

Molex developed its new 503376 plug to meet the requirements of digital camera makers who were looking for space savings and cost-reductions for various sub-module applications. Molex employed new manufacturing techniques to reduce overall costs on the new 503376 version plug.

SlimStack™ 0.40mm (.016") Pitch SMT Board-to-Board Connectors, Right Angle, 3.20mm (.126") Height

54552 Receptacle,
With Pegs

503376 Plug, With Pegs and
Fitting Nails

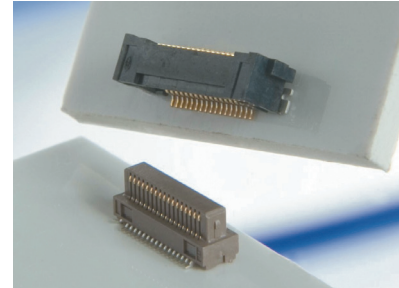
FEATURES AND BENEFITS

Features

- Small pitch and reduced overall size
- Board-placement pegs
- Wide solder tabs
- Friction lock
- Nickel-barrier plating
- New lower-cost assembly method (503376 series only)

Benefits

- Space savings
- Provide stability during soldering
- Additional PCB retention
- Secure mating retention
- Protects against flux wicking
- Cost savings



SPECIFICATIONS

Reference Information

- Packaging: Embossed
- Designed In: mm
- RoHS: Yes
- Halogen Free: Contact Molex for Halogen-free level

Electrical

- Voltage (max.): 30V
- Current (max.): 0.3A
- Contact Resistance: 60 milliohms max.
- Dielectric Withstanding Voltage: 250V AC
- Insulation Resistance: 100 Megohms min.

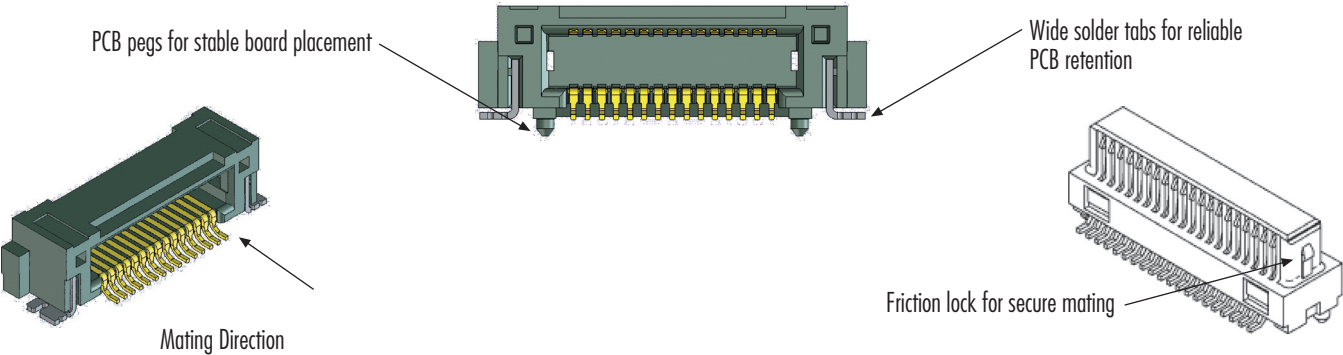
Mechanical

- Durability (min.): 30 cycles

Physical

- Housing: LCP, Glass filled
(54552 brown; 503376 black)
- Contact: Phosphor Bronze
- Plating:
 - Contact Area — Gold
 - Solder Tail Area — Gold (503376)
Tin (54552)
 - Underplating — Nickel Barrier
- Operating Temperature: -40 to +85°C

ADDITIONAL PRODUCT FEATURES



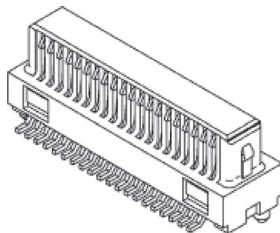
MARKETS AND APPLICATIONS

- Digital still cameras
- Digital video cameras
- Digital voice recorders
- Navigation equipment
- Portable audio players
- Any compact application



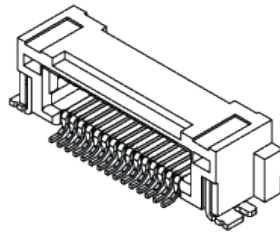
ORDERING INFORMATION

PCB Receptacle



Circuit Size	Order No. (With Pegs)	Order No. (Without Pegs)	Description
30	54552-0302	54552-3016	PCB Receptacle
34	54552-0342	N/A	
40	54552-0402	54552-4016	

PCB Plug



Circuit Size	Order No. (With Pegs)	Description
30	503376-3010	PCB Plug
34	503376-3410	
40	503376-4010	

Note: For non-peg or different circuit size versions, contact Molex.