INTRODUCTION

Molex’s newest SlimStack connectors with an ultra-narrow width of 2.60mm (.102”) and reduced length offer the greatest space savings of any similar board-to-board connector.

These new 503105 and 503108 series connectors include a similar ultra-narrow width of 2.60mm (.102”) as Molex’s 502426 and 502430 series. However, these latest versions do not include solder tabs and as a result offer even more space savings for tight-packaging applications.

The 2.60mm (.102”) width of these connectors is the narrowest available today for connectors that can mate in both board-to-board and FPC-to-board configurations. The narrow width and reduced length of these new versions enable Molex to offer over 30% space savings compared to similar competitive versions.

**Specifications:**
- Current: 0.3A
- Voltage: 50V
- Contact Plating: Gold
- Contact Resistance: 80 milliohms max.
- Insulation Resistance: 100 megohms min.
- Dielectric Strength: 125V AC
- Operating Temperature: -50 to +75°C
- Flammability: UL 94V-0
- Durability: 30 cycles

**Features**
- Ultra-narrow width
- Bottom housing mold allows for tracing patterns
- No solder tabs (fitting nails)
- Longer wipe length versus competitive versions
- Tuning fork terminal design
- Nickel barrier plating

**Benefits**
- Space savings for tight packaging applications
- Flexible design and space savings
- Helps provide additional PCB space savings
- Superior electrical contact reliability
- Secure contact reliability
- Prevents solder wicking

**Wipe Length**

H=1.50mm
Long Wipe Length of 0.45mm

**Space Savings**

Molex 503105

- 2.6mm
- 10.6mm

Competitor

- 3.38mm
- 10.4mm

- 27.04mm²
- 100%

- 35.83mm²
- 133%

- <40dcr>

MARKETS AND APPLICATIONS

- Mobile phones
- PDA’s
- Digital Cameras/Camcorders
- Any application requiring maximum PCB space savings
0.40mm (.016") Pitch SlimStack™ SMT Board-to-Board Connectors, with Ultra-Narrow 2.60mm (.102") Width 1.50mm (0.59") Height

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