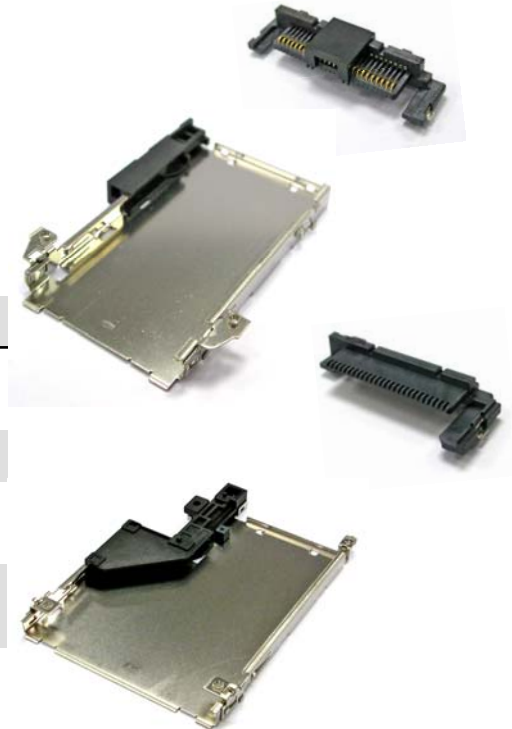**Molex expands its range of ExpressCard* products for greater space savings and design flexibility**

In this revision, Molex adds two more ExpressCard to its current offerings. They are the top-mount version for 34mm and 54mm wide ExpressCard modules.

The ExpressCard technology developed by the Personal Computer Memory Card International Association (PCMCIA), is the next generation of the PC Card technology. Its interface is smaller, faster and less expensive compared to the PC Card. The ExpressCard technology supports the PCI Express and USB 2.0 interface for connection of applications. This allows hot plugging which makes it easy to install new capabilities in mobile and desktop system.

Applications are connected via modules. There are 2 standard formats of ExpressCard modules: the ExpressCard/34 (34mm wide), and the ExpressCard/54 (54mm wide). Both modules are 5 mm thick and are connected by the same connector interface. The standard module length is 75mm, which is 10.6mm shorter than the standard PC Card.

47150	**Push Mechanism Top Mount**
47277	**Push Mechanism Top Mount for 34mm only**
47314	**Push Mechanism Top Mount for 54mm only**
47322	**Push Mechanism Bottom Mount for 34mm only**

Features	Benefits
• Smooth guide rail design	• Enable modules to easily insert and eject
• Clip grounding spring design	• Lower contact resistance
• Plastic heart cam slider for push out function	• Prevents damage on modules during insertion
• Use of plastic material on universal guidance feature	• Enhanced lead-in of modules
• Optional die design including top & bottom mount	• Multi-standoff option

SPECIIFICATIONS

Reference Information
Packaging:Tape & Reel, Tray:
UL File No.: TBD
CSA File No.: TBD
Designed In: mm

Electrical
Voltage: 3.3V DC
Current: 0.75A per pin min. at 25•C
Contact Resistance: 55 milliohms max.
Dielectric Withstanding Voltage: 1mA max.
Insulation Resistance: 100 Megohms min.

Physical
Housing: High Temperature Thermoplastic
Contact: Copper Alloy
Plating:
 Contact Area — 15µ" min. Gold .
 Solder Tail Area — 40 – 100 µ" Pure Tin.
 Underplating — Ni Overall
PCB Thickness: 1.6mm
Operating Temperature: 0•C to 55•C

Mechanical
Mating Force:39N max.
Unmating Force:18.5N max. 3.7N min.
 3.70N min. (for 47150 series)

Durability: 10,000 cycles.

MARKETS AND APPLICATIONS

Markets and Applications

• **Desktop and Notebook Industry**

47150	Push Mechanism Top Mount
47277	Push Mechanism Top Mount for 34mm only
47314	Push Mechanism Top Mount for 54mm only
47322	Push Mechanism Bottom Mount for 34mm only

ORDERING INFORMATION

Lead-free Order No.	Description	Packaging
47150-0002	**Header** Top Mount, Push-Push Type	Embossed Tape on Reel
47150-0003	**Ejector Assembly** Top Mount, Push-Push Type without Bottom Shell	Tray
47150-0004	**Ejector Assembly** Top Mount, Push-Push Type with Bottom Shell	Tray
47277-0002	**Header** Top Mount, Push-Push Type for 34.00mm (1.34") Width Card	Embossed Tape on Reel
47277-0003	**Ejector Assembly** Top Mount, Push-Push Type for 34.00mm (1.34") Width Card	Tray
47314-0052	**Header** Top Mount, Push-Push Type for 54.00mm (2.13") Width Card	Embossed Tape on Reel
47314-9053	**Ejector Assembly** Top Mount, Push-Push Type for 54.00mm (2.13") Width Card,	Tray
47322-0002	**Header** Bottom Mount, Push-Push Type	Embossed Tape on Reel
47322-0003	**Ejector Assembly** Bottom Mount, Push-Push Type for 34.00mm (1.34") Width Card	Tray
47322-0322	**Header** Bottom Mount, Push-Push Type for 34mm (1.34") with 3.22mm (.127") Stand Off	Embossed Tape on Reel
47322-0323	**Ejector Assembly** Bottom Mount, Push-Push Type, for 34.00mm (1.34") Header with 3.22mm (.127") Stand Off	Tray