

INTRODUCTION



microSD/SIM Combo Socket , 2.75mm Height

Molex's new microSD/SIM card combo connector offers the smallest overall size of any combo version in the market today

Molex developed its microSD/SIM combo connector to meet the continuing downsizing and low height requirements of its mobile phone customers.

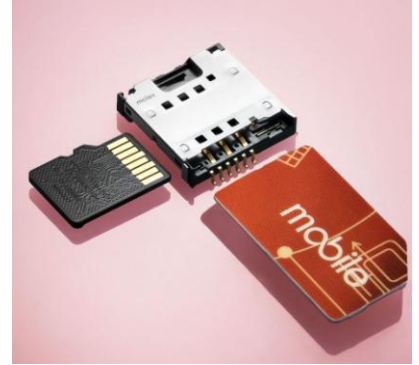
By combining two connectors in one, this combo design provides significant PCB space savings. Solder tails are located on two sides of the connector, while still providing good coplanarity control.

This connector was originally introduced for 3G MegaSIM phone applications, but the different pin-out options make it suitable for various mobile device applications.

Specification

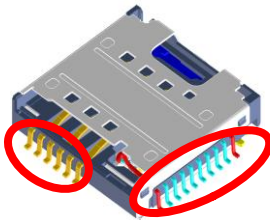
- Current: 0.50A
- Voltage: 100V micro SD / 5V SIM
- Contact Plating: Selective Gold
- Contact Resistance: 100 milliohms max
- Insulation Resistance: 1000 milliohms min
- Dielectric Strength: 500V AC
- Flammability: UL 94V-0

49448 (8-Pin SIM)
49362 (6-Pin SIM)

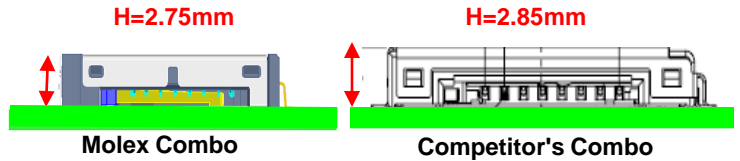


Outer-Lead Solder Tabs/ Reliable Coplanarity

Solder tails are located outside for visible checking, and are able to keep coplanarity at 0.1mm max. after reflow.



Height Comparison: Molex Vs. Competitor's



| Features | Benefits |
|---|--|
| <ul style="list-style-type: none"> ● Ultra low profile and compact; combines two socket ports into one footprint | <ul style="list-style-type: none"> ● Space savings for mobile device applications |
| <ul style="list-style-type: none"> ● Reliable mate/un-mate cycling | <ul style="list-style-type: none"> ● Assures 7,000 cycles |
| <ul style="list-style-type: none"> ● Solder tails on two sides | <ul style="list-style-type: none"> ● Space savings and able to keep co-planarity 0.1mm maximum after reflow |
| <ul style="list-style-type: none"> ● Visible solder tails | <ul style="list-style-type: none"> ● Enables easy checking |
| <ul style="list-style-type: none"> ● Card polarization | <ul style="list-style-type: none"> ● Prevents card from being improperly inserted |

MARKETS AND APPLICATIONS



- PDP
- Mobile phones
- Other compact mobile devices


49448 (8-Pin SIM)
49362 (6-Pin SIM)

| Order No. | Description | PCB Mounting | Depth with Card (mm) | Detect Switch | Height (mm) | Width (mm) | Depth (mm) | Plant No. for Samples |
|------------|----------------------|--------------|----------------------|---------------|-------------|------------|------------|-----------------------|
| 49448-1611 | 8-pin SIM: Push-Pull | Normal | 25.48 | No | 2.75 | 17.70 | 17.70 | 2299 |
| | microSD: Push-Push | Reverse | 19.25 | Yes | | | | |
| 49362-1411 | 6-pin SIM: Push-Pull | Normal | 25.48 | No | 2.75 | 17.70 | 17.70 | 2299 |
| | microSD: Push-Push | Reverse | 19.25 | Yes | | | | |

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