Memory Card Connectors, Pin-Eject Tray Type, Single and Combo Styles

Molex’s miniature memory card connectors with pin-style eject function and card tray holder provide low profiles, multi-card configurations, easy card insertion and removal, and secure electrical contact for ultra-thin mobile devices.

Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Card-tray eject with the use of a standard pin</td>
<td>Enables easy card extraction without the need for a special tool</td>
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<tr>
<td>Low profiles and compact sizes</td>
<td>Offers space savings to meet the needs of ultra-thin mobile device designs</td>
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<tr>
<td>Card polarization features</td>
<td>Prevents card tray from being inserted incorrectly</td>
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<tr>
<td>Anti-buckling contact design</td>
<td>Front-and-back chamfered slope terminal design provides smooth card insertion and extraction, and protection from damage</td>
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<tr>
<td>Supports SIM, micro-SIM, nano-SIM and microSD card formats</td>
<td>Meets industry standards and provides design flexibility</td>
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</tbody>
</table>

Applications

Consumer Mobile Devices
- Smart Phones
- Tablet PCs
- Portable Audio
- Portable Navigation Equipment
- E-book Reader

Additional Product Features

Different Card-Slot Variations (3-in-2 and 2-in-2)

The “3-in-2” description means that one of the card slots can accept two different types of cards, which enables three card options within two slots. “2-in-2” means the tray accepts two types of the same card format.

505330 Series (3-in-2) microSD/nano-SIM, or Two nano-SIM cards

104264 Series (2-in-2) Dual nano-SIM
Memory Card Connectors, Pin-Eject Tray Type, Single and Combo Styles

Specification

Memory Card Connectors, Pin-Eject Tray Types, Combo-Card Styles

REFERENCE INFORMATION
Packaging: Embossed tape
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

ELECTRICAL
Voltage (max.): 50V
Current (max.): 0.3A
Contact Resistance:
505330: 60 milliohms max.;
505418, 505438, 104241, 104264, 151050/58/59: 100 milliohms max.
Dielectric Withstanding Voltage: 250V AC (rms)
Insulation Resistance: 100 Megohm min.

PHYSICAL
Housing: LCP, Black
Contact: Copper Alloy
Operating Temperature: 104241, 104264, 505330, 505418, 505438:
-25 to +85°C;
151050/58/59: -30 to +85°C

Memory Card Connectors, Pin-Eject Tray Types, Single-Card Styles

REFERENCE INFORMATION
Packaging: Embossed tape
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low halogen

ELECTRICAL
Voltage (max.): 10V (78790/78545: 15V)
Current (max.): 0.5A
Contact Resistance:
505020, 504528: 50 milliohms max.;
504520, 104240, 104244, 78790/78545:
100 milliohms max.
Dielectric Withstanding Voltage: 500V AC (rms)
Insulation Resistance: 1000 Megohm min.

PHYSICAL
Housing: LCP, Black
Contact: Copper Alloy
Shell: Stainless Steel
Detect Lever/Switch: Copper Alloy
Operating Temperature:
505020, 504528, 504520, 104240, 104244:
-25 to +85°C
78790, 78545: -30 to +85°C

Ordering Information

Memory Card Connectors, For Combo-Card Trays

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>505330-2091</td>
<td>nano-SIM/micro-SD (3-in-2)</td>
</tr>
<tr>
<td>505418-1291</td>
<td>Dual micro-SIM (2-in-2)</td>
</tr>
<tr>
<td>505438-1491</td>
<td>Dual nano-SIM (2-in-2)</td>
</tr>
<tr>
<td>104264-1211</td>
<td>Dual nano-SIM (2-in-2)</td>
</tr>
<tr>
<td>104241-1221</td>
<td>Dual SIM Frame (2-in-2)</td>
</tr>
<tr>
<td>151059-0001</td>
<td>Micro-SIM Connector, Block SIM (2-in-2)</td>
</tr>
<tr>
<td>151059-0002</td>
<td>Nano-SIM Connector, Block SIM (2-in-2)</td>
</tr>
</tbody>
</table>

Memory Card Connectors, For Single-Card Tray

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>505020-0692</td>
<td>micro-SIM, Double Hook, Friction Lock</td>
</tr>
<tr>
<td>504528-0892</td>
<td>microSD</td>
</tr>
<tr>
<td>504520-0691</td>
<td>nano-SIM</td>
</tr>
<tr>
<td>104240-0631</td>
<td>nano-SIM</td>
</tr>
<tr>
<td>104244-0631</td>
<td>nano-SIM</td>
</tr>
<tr>
<td>78790-1001</td>
<td>nano-SIM Frame</td>
</tr>
<tr>
<td>78645-0010</td>
<td>nano-SIM Connector (Block SIM)</td>
</tr>
</tbody>
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