MEMORY CARD CONNECTORS

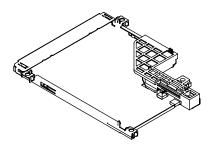
ExpressCard*	M-2
MicroSD	
PC Card Headers	
One Slot Cardbus Headers	
SD Memory Card Connector	

*ExpressCard is a trademark of PCMCIA

1.00mm (.039") Pitch ExpressCard* **Ejector Assembly**

47150

Push-Push Type Screw Mount



Order No.	Description	Lead-free
<u>47150-0003</u>	Without Bottom Shell	V
<u>47150-0004</u>	With Bottom Shell	Yes

^{*}ExpressCard is a trademark of PCMCIA

ExpressCard*

Top Mount, SMT

Header

47150

1.00mm (.039") Pitch

Features and Benefits

- Smooth guide rail design enables modules to be easily inserted and ejected
- Clip grounding design provides lower contact resistance
- Plastic heart cam slider with push-out function prevents scratches from modules
- The use of plastic material on universal guidance feature enhanced lead-in of modules
- Nut plate design in metal shell provides space saving on PCB

Reference Information

Product Specification: PS-47202-001

Packaging: Tray

Use With: 47150-0002 header **Designed In: Millimeters**

Features and Benefits

- Compatible with ExpressCard[™] standard
- force and mating retention
- Polarization shape prevents from mismating of PCB
- Fitting nail design reinforce hold-on to PCB

Reference Information

Use With: 47150-0003 or 47150-0004 ejector assembly

- Beveled spring contact design provides secure contact

Product Specification: PS-47202-001

Packaging: Tray

Designed In: Millimeters

Electrical

Voltage: 3.3V DC Current: 0.75A

Mechanical

Physical

Durability: 10,000 cycles

Housing: High-temperature thermoplastic, UL 94V-0

Contact Resistance: 40 milliohms max. Dielectric Withstanding Voltage: 500V AC Insulation Resistance: 100 Megohms min.

Mechanical

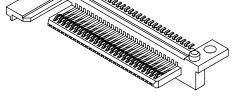
Mating Force: 39N max.

Unmating Force: 3.7N min. and 18.5N max.

Durability: 10,000 cycles

Housing: High-temperature thermoplastic, UL 94V-0 Terminal: Contact Area—Gold plating

Solder Tail Area—Tin Underplating—Nickel



Order No.	Lead-free
<u>47150-0002</u>	Yes

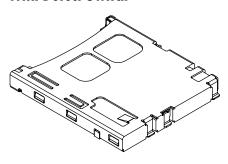
*ExpressCard is a trademark of PCMCIA



1.10mm (.043") Pitch microSD Memory Card Connector

502570

Normal Mount, SMT Push-Push Type With Detect Switch



Circuits	Order No.	Lead-free
8	<u>502570-0893</u>	Yes

Features and Benefits

- 1.80mm height (nominal)
- Inner housing rib wall protects terminal tips during card insertion
- Reliable detect switch assures card detection
- Smoothly beveled terminal to prevent terminal damage when card is inserted
- Card polarization feature to prevents card from being improperly inserted

Reference Information

Product Specification: PS-502570-001 Packaging: Embossed tape Designed In: Millimeters

Electrical

Voltage: 10V max. Current: 0.5A max.

Contact Resistance: 100 milliohms max. Dielectric Withstanding Voltage: 500V AC/1 min. Insulation Resistance: 1000 Megohms min.

Mechanical

Durability: 10,000 cycles

Physical

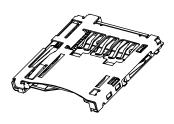
Housing: LCP, UL 94V-0 Contact: Copper Alloy

Plating: Contact Area—Gold over Nickel Solder Tail Area—Tin over Nickel

1.10mm (.043") Pitch microSD Memory Card Connector

502774

Reverse Mount, SMT Push-Push Type With Detect Switch



Circuits Order No. Lead-free 8 502774-0891 Yes

Features and Benefits

- 1.80mm height (nominal)
- Card ejection support features on housing and shell to prevent card fly-out, sticking
- Inner housing rib wall protects terminal tips during card insertion
- Reliable detect switch assures card detection
- Smoothly beveled terminal to prevent terminal damage when card is inserted
- Card polarization feature prevents card from being improperly inserted

Reference Information

Product Specification: PD-502774-001 Packaging: Embossed tape Designed In: Millimeters

Electrical

Voltage: 10V max. Current: 0.5A max.

Contact Resistance: 100 milliohms max. Dielectric Withstanding Voltage: 500V AC/1 min. Insulation Resistance: 1000 Megohms min.

Mechanical

Durability: 10,000 cycles

Physical

Housing: LCP, UL 94V-0 Contact: Copper Alloy

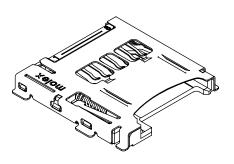
Plating: Contact Area—Gold over Nickel Solder Tail Area—Tin over Nickel



1.10mm (.043") Pitch microSD Memory Card

49225

Reverse With Detect Switch



Circuits	Order No.	Lead-free
8	<u>49225-0821</u>	Yes

Features and Benefits

- Ultra-small size for space savings
- Push-pull card eject enables easy extraction
- Metal shielding with shell tabs provides ESD protection and grounding support
- Gold-plated beveled spring contacts provide secure contact force and mating retention
- Wide open area on shells accommodates pick-and-place

Reference Information

Product Specification: PS-49225-001 Packaging: Embossed tape

Use With: microSD card and T-Flash card

Designed In: Millimeters

Electrical

Voltage: 100V max. Current: 0.5A max.

Contact Resistance: 100 milliohms max. Dielectric Withstanding Voltage: 500V AC/1 min. Insulation Resistance: 1000 Megohms min.

Physical

Housing: LCP

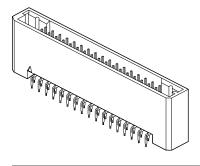
Contact: Phosphor Bronze Plating: Gold over Nickel

www.molex.com/product/memory/microsd.html

1.27mm (.050") Pitch PC Card Header

94208

Single Port, Flush Profile Vertical, Top Mount Through Hole



Features and Benefits

- Compatible with PCMCIA and JEIDA standards
- Screw holes inside the shrouded housing (no mounting ears)
- Accepts any PCMCIA Type I, II or III cards

Reference Information

Product Specification: PS-94208

Packaging: Tube Designed In: Millimeters

Electrical

Voltage: 100V Current: 0.5A

Contact Resistance: 40 milliohms max. Dielectric Withstanding Voltage: 500V AC Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Retention to Housing: 9.8N min. Mating Force: 39.2N max. Unmating Force: 6.67N min. Durability: 10,000 cycles

Physical

Housing: Black nylon 6/6, UL 94V-0 Terminal: Contact Area—Gold plating Solder Tail Area—Tin Underplating—Nickel

Circuits	Order No.	Board Mount	Lead-free
68	<u>94208-0011</u>	Vertical	Yes

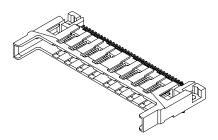
Pin No.	Dimension L
36 and 67	3.50 (.138)
All other pins	4.25 (.167)
1, 17, 34, 35, 51 and 68	5.00 (.197)



1.27mm (.050") Pitch PC Card Header

67130

Single Slot, Flush Profile Top Mount, Right Angle, SMT



Features and Benefits

- Low voltage: 3.3V key
- Low Profile: 5.45mm (.215") height
- Single inline surface mount tails: 0.635mm (.025") pitch
- High temperature housing for IR process
- Top mounting version
- Accepts any PCMCIA Type I, II and III cards and any
- Type I or II cards with ejector mechanism

Reference Information

Product Specification: PS-67160-011 Packaging: Tray Designed In: Millimeters

Electrical

Voltage: 100V Current: 0.5A

Contact Resistance: 40 milliohms max. Insulation Resistance: 1000 Megohms min.

Mechanica

Contact Retention to Housing: 9.8N (2.205 lb) min. Mating Force: 39.2N (8.82 lb) max. Unmating Force: 6.67N (1.50 lb) min. Durability: 10,000 cycles

Physical

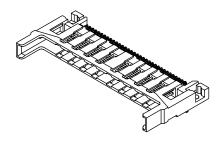
Housing: White Glass-filled LCP, UL 94V-0 Terminal: Contact Area—Gold plating Solder Tail Area—Tin Underplating—Nickel

Circuits	Order No.	Voltage Key	Lead-free
68	<u>67130-0802</u>	3.3V Key	Yes

1.27mm (.050") Pitch One Slot Cardbus Header

67130

Flush Profile, Top Mount Right Angle, SMT



Features and Benefits

- Low voltage: 3.3V key
- Low Profile: 5.45mm (.215") height
- Compatible with PCMCIA standard
- Single inline surface mount tails: 0.635mm (.025") pitch
- High temperature housing for IR process
- 8 grounding plates reinforce the ground bounce performance
- Top mounting version
- Accepts any PCMCIA Type I, II and III cards and Cardbus cards and any Type I or II cards with ejector mechanism

Reference Information

Product Specification: PS-67160-011

Packaging: Tray
Designed In: Millimeters

Electrical

Voltage: 100V Current: 0.5A

Contact Resistance: 40 milliohms max. Insulation Resistance: 1000 Megohms min.

Mechanical

Contact Retention to Housing: 9.8N min. Mating Force: 39.2N max. Unmating Force: 6.67N min. Durability: 10,000 cycles

Physical

Housing: White glass-filled LCP, UL 94V-0 Terminal: Contact Area—Gold plating Solder Tail Area—Tin Underplating—Nickel

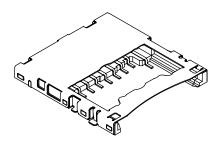
Circuits	Order No.	Voltage Key	Lead-free
68	<u>67130-0801</u>	3.3V Key	Yes



2.50mm (.098") Pitch SD Memory Card Connector

500998

Normal-Mount, SMT, Shielded 3.10mm (.122") Mounted Height



Circuits	Order No.	Lead-free
9	<u>500998-0900</u>	Yes

Features and Benefits

- Beveled spring contacts provide secure contact force and mating retention
- Low-profile design provides space savings
- Push-push ejector offers easy card extraction and tactile feel
- Metal shielding and integral solder tabs provide ESD protection
- Top window provides card visibility
- Robust shell provides card protection

Reference Information

Product Specification: PS-500998-003 Packaging: Embossed tape Designed In: Millimeters

Electrical

Voltage: 100V max. Current: 0.5A max.

Contact Resistance: 80 milliohms max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 Megohms min.

Mechanical

Mating Force: 13.8N max. Unmating Force: 13.8N max. Durability: 10,000 cycles

Physical

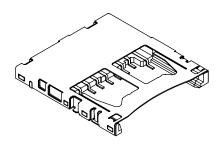
Housing: Black heat resistant Polymer, UL 94V-0

Contact: Copper Alloy Plating: Gold

2.50mm (.098") Pitch SD Memory Card Connector

500999

Normal-Mount, SMT, Shielded 3.10mm (.122") Mounted Height Ultra-Short Solder Tabs



Circuits	Order No.	Lead-free
9	<u>500999-0900</u>	Yes

Features and Benefits

- Beveled spring contacts provide secure contact force and mating retention
- Low profile design provides space savings
- Push-push ejector offers easy card extraction and tactile feel
- Metal shielding and integral solder tabs provide ESD protection
- Top window provides card visibility
- Robust shell provides card protection

Reference Information

Product Specification: PS-500999-001 Packaging: Embossed tape Designed In: Millimeters

Electrical

Voltage: 100V max. Current: 0.5A max.

Contact Resistance: 80 milliohms max.
Dielectric Withstanding Voltage: 500V AC/1 min.
Insulation Resistance: 1000 Megohms min.

Mechanical

Mating Force: 13.8N max. Unmating Force: 13.8N max. Durability: 10,000 cycles

Physical

Housing: Black heat resistant Polymer, UL 94V-0

Contact: Copper Alloy Plating: Gold

