

FEATURES AND SPECIFICATIONS



1.30mm (.051") Pitch miniSD Memory Card Connector

Molex offers 2 more miniSD card connector to its existing range

Small and compact, the miniSD connector is about 30% smaller than the original Secure Digital (SD*) connector. This reduction in size allows the design of smaller applications with SD architecture interface. The miniSD card is backward compatible with the SD connector via a card an adaptor which provides user the flexibility of having a miniSD card for both SD and miniSD applications.

Some of the design features include molded spring for strong card retention, effective metal shielding against EMI, RFI and ESD. A detect switch is deployed to ensure the connectivity of card to connector. The push-push feature aids user in inserting and extracting the card.

Molex miniSD card connector comes in standard and reverse mount versions. Please refer to Molex's Website and the Miniature Memory Card Catalog available in Literature Central for Molex's full range of miniSD connectors.

47457 Top Mount Push-push SMT



48050 Bottom Mount Push-Push SMT



Features	Benefits
• Card detect switch	• Confirms card presence
• Read/Write protection switch	• Provides protection of content in the SD Card
• Low profile, compact size	• Space savings
• Metal shield	• EMI/RFI and ESD protection
• Solder tabs	• Strong retention of connector to PCB
• Beveled spring terminal design	• Secure mating of card to connector

*miniSD and SD is a registered trademark of Secure Digital Association

SPECIFICATIONS

Reference Information

Packaging: Embossed Tape on Reel

UL File No.:

CSA File No.:

Uses With: miniSD memory card

Designed In: mm

Electrical

Current: 0.5A

Voltage: 10V max

Contact Resistance: 40 milliohms max.

Dielectric Withstanding Voltage: 500V AC

Insulation Resistance: 1000 milliohms min

Mechanical

Insertion Force: 5 ± 1.5 N (0.51 ± 0.15 kgf)

Unmating Force: 5 ± 1.5 N (0.51 ± 0.15 kgf)

Durability: 10,000 cycles

Physical

Housing: Thermoplastic, High Temperature,
UL 94V-0

Contact: Copper (Cu) Alloy

Plating:

Contact Area — Gold (Au)

Solder Tail Area — Tin (Sn)

Underplating — Nickel (Ni)

PCB Thickness: 1.2mm (.045")

Operating Temperature: -25°C to $+90^{\circ}\text{C}$

MARKETS AND APPLICATIONS



1.30mm (.051") Pitch miniSD Memory Card Connector

Markets and Applications

- **Mobile phones**
- **PDA**
- **Digital Still Camera**
- **Digital Video Camera**
- **Portable digital audio player**
- **GPS**



Mobile phone



DSC



DVC



PDA



GPS

47457
Top Mount
Push-push
SMT

48050
Bottom Mount
Push-Push
SMT



Portable audio player

ORDERING INFORMATION

Description	Lead free Order No.	Remarks
1.30mm (.051") Pitch miniSD Memory Card Connector, Top Mount Type	47457-8001	With post
	47457-8002	Without post
1.30mm (.051") Pitch miniSD Memory Card Connector, Reverse Mount Type	48050-0001	—



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