



Miniature Memory Card Connector System



A

miniSD Memory Card Connector, Normal Mount Type: Mounting Specifications: • Surface Mount; Top • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 11 • PCB Pitch: 1.30mm (.051 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 10V • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 1000MΩ min. • Contact Retention Force-min. (per circuit): 0.98N (0.22lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • UL 94V-0 • Black • Contacts: Copper Alloy • Plating Tail: Tin • Plating: Gold • Temperature Range: -25°C - 85°C **Environment:** • Lead-free Process Capability: Reflow Capable (SMT only) • Process Temperature (max.): 260°C

miniSD Memory Card Connector, Reverse Mount Type: Mounting Specifications: • Surface Mount; Reverse • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 11 • PCB Pitch: 1.30mm (.051 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 10V • Withstanding Voltage: 500VAC • Contact Resistance: 40mΩ max. • Insulation Resistance: 1000MΩ min. • Contact Retention Force-min. (per circuit): 0.98N (0.22lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • UL 94V-0 • Black • Contacts: Copper Alloy • Plating Tail: Gold • Plating: Gold • Temperature Range: -25°C - 90°C **Environment:** • Lead-free Process Capability: Wave Capable (TH only)

SD Memory Card Connector, Standard Mount Type: Mounting Specifications:

• Surface Mount; Top • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 9 • PCB Pitch: 2.50mm (.098 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 250VDC • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. • Normal Force-min. (per circuit): 0.20N (0.04lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Copper Alloy • Plating Tail: Tin • Plating: Gold Selective • Temperature Range: -25°C - 85°C **Environment:** • Lead-free Process Capability: Reflow Capable (SMT only) • Process Temperature (max.): 240°C

SDIO Memory Card Connector, Reverse Mount Type: Mounting Specifications: • Surface Mount; Bottom • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 9 • PCB Pitch: 2.50mm (.098 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 100V • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. • Normal Force-min. (per circuit): 0.20N (0.04lb) **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Phosphor Bronze • Plating Tail: Tin • Plating: Gold Selective • Temperature Range: -25°C - 90°C

3 in 1 Memory Combo Connector, with SD/MS/MMC Standard Mount Type: Mounting Specifications: • Surface Mount; Top • PCB Retention: Solder Tab - Surface Mount • Circuits - PCB: 42 • PCB Thickness: 1.0mm (.04 inch) **Electrical**

Specifications: • Current (max.): 0.5A • Voltage (max.): 5V • Withstanding Voltage: 250VAC, 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. • 1000MΩ min. **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • UL 94V-0 • Black • Contacts: Phosphor Bronze • Plating Tail: Tin • Plating: Gold Selective • Plating Contact: 0.2µm Gold • Durability (mating cycles) min.: 10,000 cycles • Under Plating: Nickel • Temperature Range: -25°C - 85°C **Environment:** • Lead-free Process Capability: Reflow Capable (SMT only) • Process Temperature (max.): 250°C

miniSD Card Adaptor: Specifications: • Use with SD port and miniSD card • Pitch/Center Spacing: 2.50mm (.098 inch) • Circuits/Positions: 9 • Current (max.): 0.5A • Color: Black • Plating: Gold • Plating Contact: Gold • Temperature Range: -25°C - 85°C

SD Memory Card Connector, Reverse Mount Type: Mounting Specifications: • Surface Mount; Reverse PCB Retention: Solder Tab - Surface Mount • PCB Pitch: 2.50mm (.098 inch) **Electrical Specifications:** • Current (max.): 0.5A • Voltage (max.): 100VAC • Withstanding Voltage: 500VAC • Contact Resistance: 80mΩ max. • Insulation Resistance: 1000MΩ min. **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer • UL 94V-0 • Black • Contacts: Copper Alloy • Plating: Gold (Au) Selective • Durability (mating cycles) min.: 10,000 cycles • Temperature Range: -25°C - 90°C

Dim. in mm

Fig. 1 — miniSD Memory Card Connector, Normal Mount Type

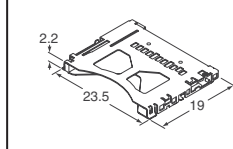


Fig. 2 — miniSD Memory Card Connector, Reverse Mount Type

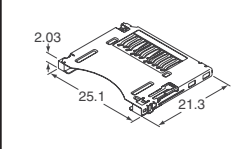


Fig. 3 — SD Memory Card Connector, Standard Mount Type

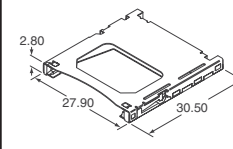


Fig. 4 — SDIO Memory Card Connector, Reverse Mount Type

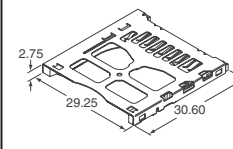


Fig. 5 — 3 in 1 Memory Combo Connector, with SD/MS, MMC Standard Mount Type

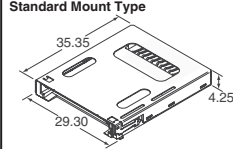


Fig.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Qty.	Pricing	Molex Part No.
		1	25	100				
1	WM23957CT-ND	5.20	4.01	3.21	WM23957TR-ND	500	1087.87	500972-1107
2	WM23958CT-ND	5.37	4.14	3.31	WM23958TR-ND	700	1620.53	48050-0001
3	WM23961CT-ND	6.35	4.89	3.91	WM23961TR-ND	400	1166.78	67600-8002
4	WM19113CT-ND	6.80	5.24	4.19	WM19113TR-ND	600	1757.40	67913-8008
5	WM23964CT-ND	8.33	6.41	5.13	WM23964TR-ND	250	896.68	48000-2001
6	WM23959-ND†	13.05	10.04	8.03	—	—	—	501471-0900
7	WM23960CT-ND	12.64	9.73	7.78	—	—	—	54768-0977

† Tray

Fig. 6 — miniSD Card Adaptor

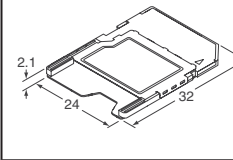
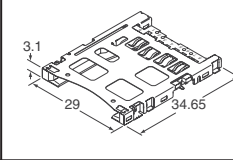


Fig. 7 — SD Memory Card Connector, Reverse Mount Type

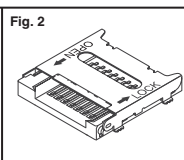
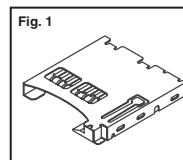


TransFlash Connectors

Ultra small size for space savings. Metal shielding with shell tabs provides ESD protection and grounding support. Wide open area on shells accommodates pick-and-place. Solder tails on inside of design provide space savings. **Features:** • Current: 0.5A maximum • Withstanding Voltage: 500VAC • Insulation Resistance: 1000MΩ minimum • Temperature Range: -25°C - 85°C

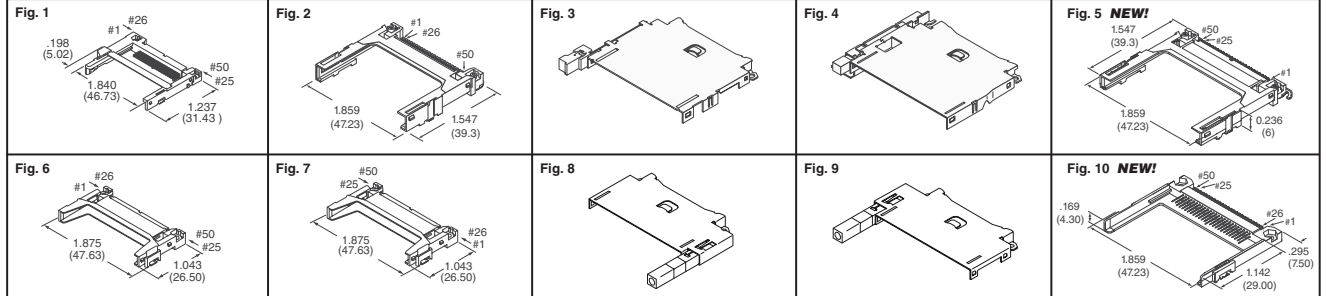


Fig.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing 1,400	Molex Part No.
		1	25	100			
1	WM19114CT-ND	4.95	3.81	3.05	WM19114TR-ND	2131.00/M	500873-0806
2	WM19081CT-ND	4.61	3.55	2.84	WM19081TR-ND	1928.00/M	500901-0801



Compact Flash Card Connectors

Dim. in Inches (mm)



Card Headers
Features and Benefits: • Size 50 circuits • Dual-row 1.27mm (.050") pitch at card interface and 0.635mm (.025") pitch in-line SMT tails • High temperature housing suitable for reflow soldering • In-line SMT tails protect against damage during assembly
Electrical Specifications: • Voltage: 100V • Current: 0.5A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500VAC/1 minute • Insulation Resistance: 1000MΩ minimum
Physical Specifications: • Housing: Glass-filled LCP, UL94V-0 • Contact: Phosphor bronze • Plating: Gold over palladium nickel in contact area; tin in solder tail area, nickel underplate overall • Solder Tab: Phosphor bronze, tin over copper plating • Temperature: -20°C - 90°C

Card Ejectors
Features and Benefits: • Low-profile modular design snaps easily onto header • Lever design provides for smooth card extraction
Physical Specifications: • Metal Shell and Lever: Stainless steel • Top button: Glass-filled PBT, UL 94V-0

Fig.	Description	Price Each			Molex Part No.	
		1	25	50		
For Type I and Type II Cards and Headers — RoHS Compliant						
1	Header, Right Angle, SMT, 5.85mm Low Profile Height	WM18740-ND	18.79	17.22	15.66	55244-5029
2	Top Mount Header, Right Angle, SMT, 1.65mm Standoff Height	WM18766-ND	10.26	9.41	8.55	55358-5029
3	Ejector, Left Side Flip Button (for Top or Bottom Mount Headers)	WM18767-ND	5.88	5.40	4.91	55356-0011
3	Ejector, Right Side Button (for Bottom Mount Headers)	WM18949-ND NEW!	17.84	16.36	14.87	55365-0011
4	Ejector, Left Side Button (for Top Mount Headers)	WM18768-ND	8.85	8.12	7.38	55364-0011
5	Header, Right Angle, SMT, Bottom Mount	WM18948-ND NEW!	13.86	12.71	11.55	55359-5029
10	Header, Right Angle, SMT, Low Profile Height, Top Mount	WM18947-ND NEW!	7.76	7.12	6.47	67155-0002
For Type I Cards and Headers						
6	Top Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18587-ND	9.24	8.47	7.70	53856-5070
7	Bottom Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18743-ND	9.24	8.47	7.70	53927-5019
8	Ejector, Right Side Flip Button (for Top or Bottom Mount Headers)	WM18507-ND	6.37	5.84	5.31	55021-0001
9	Ejector, Left Side Button (for Top or Bottom Mount Headers)	WM18508-ND	6.37	5.84	5.31	55022-0001
10	Header, Right Angle, SMT, Bottom Mount	WM18946-ND NEW!	8.69	7.97	5.31	67155-0001

◆ RoHS Compliant

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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