

# molex® Miniature Memory Card Connector System



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**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: 0.5A max. • Voltage: 10V max. • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 1000MΩ min. • Contact Retention Force (per circuit): 0.98N (0.22lb) min. **Physical Specifications:**  
 • Housing Material: LCP Liquid Crystal Polymer • 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: 260°C max.

**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: 0.5A max. • Voltage: 10V max. • Withstanding Voltage: 500VAC • Contact Resistance: 40mΩ max. • Insulation Resistance: 1000MΩ min. • Contact Retention Force (per circuit): 0.98N (0.22lb) min. **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: 0.5A max. • Voltage: 250VDC max. • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. • Normal Force (per circuit): 0.20N (0.04lb) min. **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: 240°C max.

**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: 0.5A max. • Voltage: 100V max. • Withstanding Voltage: 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. • Normal Force (per circuit): 0.20N (0.04lb) min. **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: 0.5A max. • Voltage: 5V max. • 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): 10,000 cycles min. • Under Plating: Nickel • Temperature Range: -25°C - 85°C **Environment:** • Lead-free Process Capability: Reflow Capable (SMT only) • Process Temperature: 250°C max.

**miniSD Card Adaptor: Specifications:** • Use with SD port and miniSD card • Pitch/Center Spacing: 2.50mm (.098 inch) • Circuits/Positions: 9 • Current: 0.5A max. • 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: 0.5A max. • Voltage: 100VAC max. • 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 Selective • Durability (mating cycles): 10,000 cycles min. • Temperature Range: -25°C - 85°C

**microSD Memory Card Connector, Low-Pro and Normal Mount SMT, Push-Push Type: Physical Specifications:** • Color-Resin: Black • Pitch-Term. Interface: 1.10mm • Temperature Range: -25°C - 85°C • Housing Material: LCP Liquid Crystal Polymer • Terminal: Copper Alloy • Contacts: Gold • Plating Tail: Tin • Shell: Stainless Steel, Nail Area • Under Plating: Nickel **Electrical Specifications:** • Current: 0.5A max. • Voltage: 10V AC(RMS)/DC max.

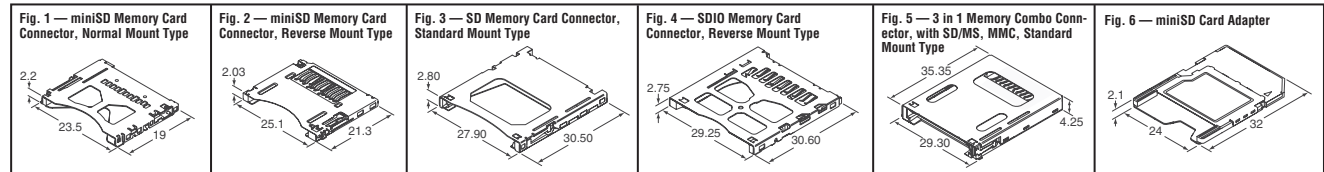
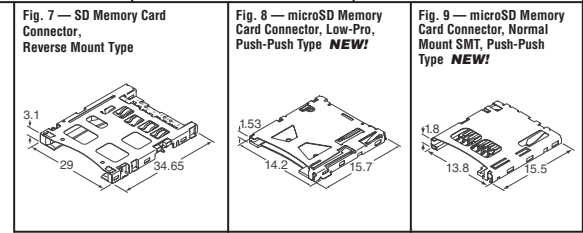


Fig.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Molex Part No.
		1	25	100		Qty.	Pricing	
1	WM23957CT-ND	4.76	3.67	2.94	WM23957TR-ND	500	1087.87	500972-1107
2	WM23958CT-ND	5.37	4.14	3.31	WM23958TR-ND	700	1620.53	48050-0001
3	WM23961CT-ND	6.39	4.92	3.94	WM23961TR-ND	400	1283.41	67600-8002
4	WM23962CT-ND	5.13	3.95	3.16	WM23962TR-ND	300	706.57	67913-0002
5	WM19113CT-ND	6.80	5.24	4.19	WM19113TR-ND	300	878.70	67913-8008
6	WM23959-ND	13.05	10.04	8.03	—	—	—	501471-0900
7	WM23960CT-ND	12.64	9.73	7.78	—	—	—	54768-0977
8	WM19092CT-ND <b>NEW!</b>	4.32	3.33	2.66	WM19092TR-ND <b>NEW!</b>	1,000	1860.00	50270-0891
9	WM19093CT-ND <b>NEW!</b>	4.13	3.18	2.55	WM19093TR-ND <b>NEW!</b>	1,300	1781.00/M	502570-0893

† Tray Note: Dimensions in mm

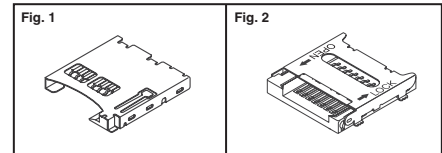


## TransFlash Connectors

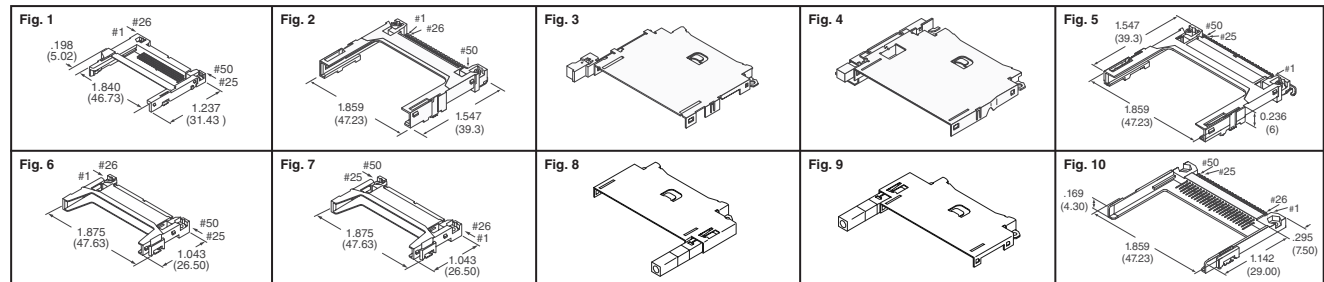
Ultra small size for space savings. Metal shielding with shell tabs provides ESD protection and grounding support. Wide open area on shells accommodates pick-and-place. Solder tails on inside of design provide space savings. **Features:** • Current: 0.5A maximum • Withstanding Voltage: 500VAC • Insulation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



Fig.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Molex Part No.
		1	25	100		Qty.	Pricing	
1	WM19114CT-ND	4.95	3.81	3.05	WM19114TR-ND	1,400	2131.00/M	500873-0806
2	WM19081CT-ND	4.22	3.25	2.60	WM19081TR-ND	1,400	1928.00/M	500901-0801



## Compact Flash Card Connectors



**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	Digi-Key Part No.	Price Each			Molex Part No.
			1	25	50	
<b>For Type I and Type II Cards and Headers — RoHS Compliant</b>						
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
4	Ejector, Right Side Button (for Bottom Mount Headers)	WM18949-ND	17.84	16.36	14.87	55365-0011
5	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	13.86	12.71	11.55	55359-5029
10	Header, Right Angle, SMT, Low Profile Height, Top Mount	WM18947-ND	9.67	8.87	8.07	67155-0002
<b>For Type I Cards and Headers</b>						
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	8.69	7.97	7.26	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.

More Product Available Online: [www.digkey.com](http://www.digkey.com)

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