

molex® 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 (0.051 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 (0.051 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 (0.098 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 - 90°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 (0.098 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 (0.04 inch) **Electrical Specifications:** • Current: 0.5A max. • Voltage: 5V max. • Withstanding Voltage: 250VAC, 500VAC • Contact Resistance: 100mΩ max. • Insulation Resistance: 100MΩ min. **Physical Specifications:** • Housing Material: LCP Liquid Crystal Polymer, Glass-filled • UL 94V-0 • Black • Contacts: Phosphor

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.

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 (0.098 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 (0.098 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.

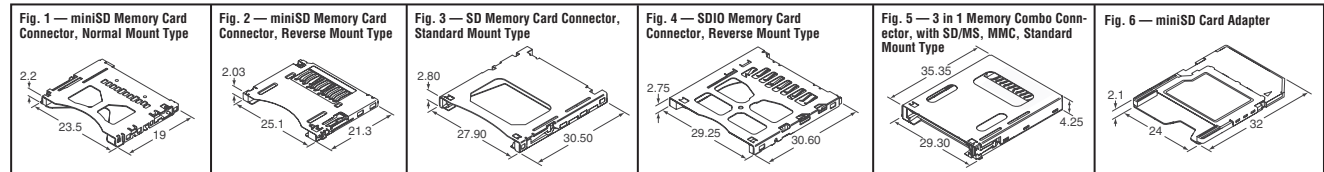
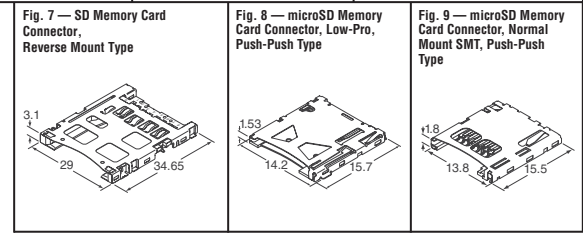


Fig.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Molex Part No.
		1	25	100		Qty.	Pricing	
1	WM23957CT-ND	2.97	2.72	2.55	WM23957TR-ND	500	975.96	500972-1107
2	WM23958CT-ND	3.07	2.81	2.63	WM23958TR-ND	700	1411.02	48050-0001
3	WM23961CT-ND	3.62	3.32	3.11	WM23961TR-ND	400	1118.08	67600-8002
4	WM23962CT-ND	2.93	2.68	2.51	WM23962TR-ND	300	677.07	67913-0002
4	WM19113CT-ND	3.88	3.55	3.33	WM19113TR-ND	600	1530.16	67913-8008
5	WM23964CT-ND	4.75	4.35	4.08	WM23964TR-ND	250	916.54	48000-2001
6	WM23959-ND	7.45	6.81	6.39	—	—	—	501471-0900
7	WM23960CT-ND	7.21	6.60	6.19	—	—	—	54768-0977
8	WM19092CT-ND	3.14	2.42	1.93	WM19092TR-ND	1,000	1350.36	502702-0891
9	WM19093CT-ND	3.00	2.31	1.85	WM19093TR-ND	1,300	1293.01/M	502570-0893

† Tray Note: Dimensions in mm

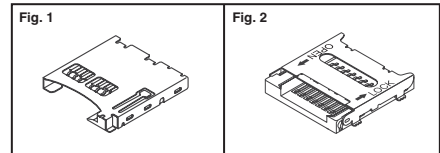


TransFlash Connectors

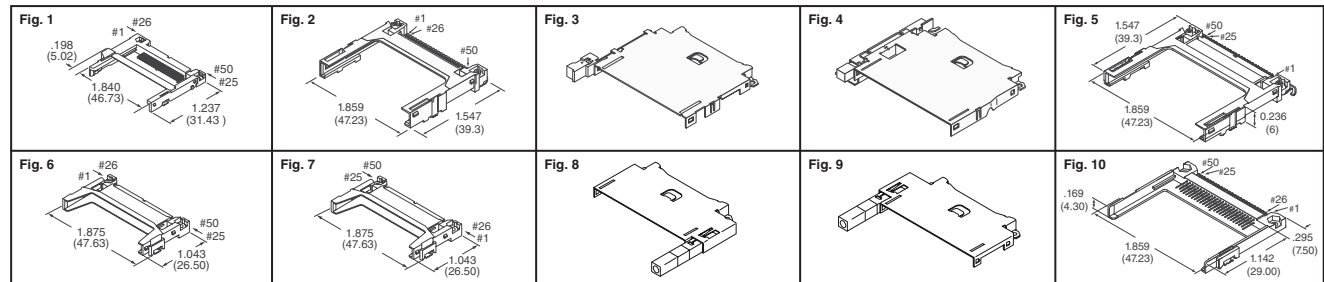
Ultra small size for space savings. Metal shielding with shell tabs provides ESD protection and grounding support. Wide open area on shells accommodates pick-and-place. Solder tails on inside of design provide space savings. **Features:** • Current: 0.5A maximum • Withstanding Voltage: 500VAC • Insulation 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	2.82	2.59	2.43	WM19114TR-ND	1,400	1533.06/M	500873-0806
2	WM19081CT-ND	1.58	1.39	1.31	WM19081TR-ND	1,400	1428.85/M	500901-0801



Compact Flash Card Connectors



Card Headers

Features and Benefits: • Size 50 circuits • Dual-row 1.27mm (0.050") pitch at card interface and 0.635mm (0.025") 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	
For Type I and Type II Cards and Headers — RoHS Compliant						
1	Header, Right Angle, SMT, 5.85mm Low Profile Height	WM18740-ND	11.28	10.30	9.99	55244-5029
2	Top Mount Header, Right Angle, SMT, 1.65mm Standoff Height	WM18766-ND	6.34	5.80	5.62	55358-5029
3	Ejector, Left Side Flip Button (for Top or Bottom Mount Headers)	WM18767-ND	3.64	3.33	3.23	55356-0011
3	Ejector, Right Side Button (for Bottom Mount Headers)	WM18949-ND	11.03	10.09	9.77	55365-0011
4	Ejector, Left Side Button (for Top Mount Headers)	WM18768-ND	7.59	6.93	6.72	55364-0011
5	Header, Right Angle, SMT, Bottom Mount	WM18948-ND	8.57	7.84	7.59	55359-5029
10	Header, Right Angle, SMT, Low Profile Height, Top Mount	WM18947-ND	4.80	4.39	4.26	67155-0002
For Type I Cards and Headers						
6	Top Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18587-ND	7.92	7.23	7.02	53856-5070
7	Bottom Mount Header, Right Angle, SMT, 1.64mm Standoff Height	WM18743-ND	5.71	5.23	5.06	53927-5019
8	Ejector, Right Side Flip Button (for Top or Bottom Mount Headers)	WM18507-ND	3.94	3.61	3.49	55021-0001
9	Ejector, Left Side Button (for Top or Bottom Mount Headers)	WM18508-ND	3.94	3.61	3.49	55022-0001
10	Header, Right Angle, SMT, Bottom Mount	WM18946-ND	5.37	4.92	4.49	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.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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