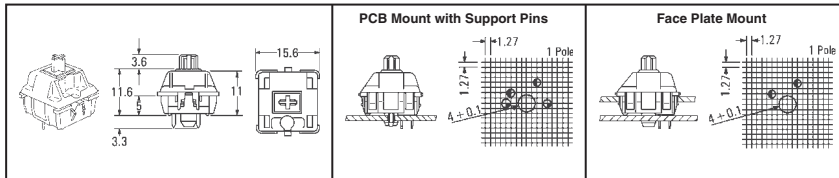




MX Key Switches

Main Advantages: • The MX is a modern full-travel low-profile keyswitch • This module is designed to meet all current ergonomic standards demanded for word and data processing applications • Gold wire crossbar contacts ensure long life expectancy • High reliability also during quick actuation • All switches are momentary N/O type • **Specifications:** • Maximum Voltage 12 • Maximum Current 10mA • Contact Resistance 200mΩ • Capacity at 1MHz <1pF • Bouncing Time at 0.4 ≤5ms



Description	Digi-Key Part No.	Price Each			Cherry Part No.
		1	10	50	
PCB Mount					
Linear Feel	CH160-ND	.62	.56	.47	MX1A-11NW
Click Tactile Feel	CH197-ND	.98	.88	.73	MX1A-E1NW
Soft Tactile Feel	CH310-ND	1.08	.96	.80	MX1A-C1NW
Face Plate Mount					
Linear Feel	CH162-ND	.69	.61	.51	MX1A-11NN
Click Tactile Feel	CH196-ND	1.08	.96	.80	MX1A-E1NN
Soft Tactile Feel	CH198-ND	1.08	.96	.80	MX1A-C1NN

Pushwheel Switches

Fig.	Output Code	Posi-tions	Read-Out	Features	Digi-Key Part No.	Price Each				Cherry Part No.
						1	10	50	100	
PA Pushwheel										
1A	BCD	10	0-9	Extended Buttons	CH178-ND	13.31	11.84	9.86	8.14	PACA-3000
	BCD Compl.	10	0-9	Extended Buttons	CH179-ND	20.52	18.25	15.21	12.55	PAEA-3000
	BCD	10	0-9	Ext. Board for Diodes	CH180-ND	16.21	14.41	12.01	9.91	PACA-4000
	Decimal	10	0-9	Extended Buttons	CH682-ND	16.33	14.52	13.61	11.50	PAAA-3000
	Octal	8	0-7	Extended Buttons	CH683-ND	15.46	13.75	11.46	9.46	PABA-3000
	Octal	8	0-7	Flush Buttons	CH684-ND	16.64	14.80	12.33	10.18	PABA-3114
	BCD	10	0-9	Extended Buttons	CH685-ND	14.43	12.83	10.69	8.82	PACA-3100
	BCD	10	0-9	Flush Buttons	CH686-ND	14.43	12.83	10.69	8.82	PACA-3114
	Hexadecimal	16	0-15	Extended Buttons	CH687-ND	11.53	10.25	8.54	7.05	PAGA-3100
	Hexadecimal	16	0-15	Flush Buttons	CH688-ND	11.53	10.25	8.54	7.05	PAGA-3114
Hexadecimal	16	0-15	Flush Buttons	CH689-ND	12.13	10.79	8.99	7.42	PAGE-3114	
Hexadecimal	16	0-15	Flush Buttons	CH690-ND	12.13	10.79	8.99	7.42	PAGN-3114	
Right End Caps for PA Switches					CH188-ND	.53	.47	.40	.35	0609-0799
Left End Caps for PA Switches					CH189-ND	.53	.47	.40	.35	0609-0801
Housing .300" (7.62mm) PA Blank Black Matte					CH678-ND	.81	.72	.67	.57	0609-0797
Spacer .100" (2.54mm) PA Blank Black Matte					CH679-ND	.81	.72	.67	.57	0609-0803
PB Pushwheel — "Dustproof" Front Mount — RoHS Compliant										
1B	BCD	10	0-9	—	CH185-ND	7.61	6.77	5.64	—	PBC1-E015
Right End Caps for PB Switches					CH194-ND	.53	.47	.40	.35	0609-1347
Left End Caps for PB Switches					CH195-ND	.53	.47	.40	.35	0609-1346
Spacer .100" (2.54mm) for PB Series Black					CH680-ND	.81	.72	.67	.57	0609-1348
PE Pushwheel — RoHS Compliant										
1C	Decimal	10	0-9	Extended Buttons	CH239-ND	15.37	13.66	11.39	9.40	PEAA-3000
	BCD	10	0-9	Extended Buttons	CH181-ND	15.00	13.33	11.11	9.17	PECA-3000
	Hex	16	0-15	Extended Buttons	CH240-ND	20.66	18.37	15.31	12.63	PEGA-3000
	Hex	16	0-9, A-F	Extended Buttons	CH281-ND	20.41	18.14	15.12	12.48	PEHA-3000
	BCD	10	0-9	Ext. Board for Diodes	CH183-ND	18.99	16.89	14.07	11.61	PECA-4000
Right End Caps for PE Switches					CH190-ND	.53	.47	.40	.35	0609-0756
Left End Caps for PE Switches					CH191-ND	.53	.47	.40	.35	0609-0754
Spacer .300" (7.62mm) PE Blank Black Matte					CH677-ND	.81	.72	.67	.57	0609-0752
T57 Pushwheel — Back Mount										
2	Decimal	10	0-9	Not for new designs	CH242-ND	10.53	9.36	7.80	6.83	0T57-01M0
L20 Leverwheel										
3	Decimal	10	0-9	Not recommended	CH233-ND	11.82	10.51	8.76	7.67	0L20-01A0
	Decimal	10	0-9	for new designs	CH234-ND	12.21	10.86	9.05	7.92	0L20-01M0

◆ RoHS Compliant NOTE: PAGA: QC terminal PAGE: Right angle header PAGN: Locking right angle header.

Fig.	Description	Digi-Key Part No.	Price Each			Cherry Part No.			
						1	10	100	
Connectors — RoHS Compliant									
4	Connector for PA Series BCD/HEX, PC Mount Terminal	CH271-ND	3.25	2.90	2.29	C2K0-P107			
	Connector for PE Series BCD/HEX, PC Mount Terminal	CH274-ND	3.47	3.09	2.45	C2R0-P111			
	Connector for PE Series BCD/HEX Solder Eyelet Terminal.	CH681-ND	3.47	3.09	2.45	C2RFN116			

Fig. 1 – PA, PB and PE Series

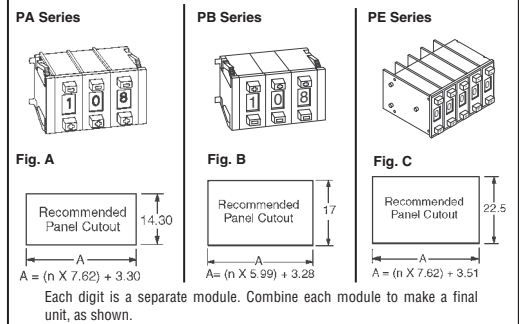


Fig. 2 – T57

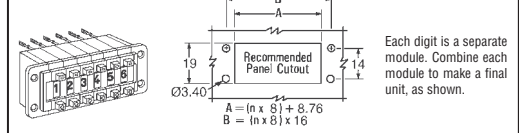


Fig. 3 – L20 (Right and Left End Caps)

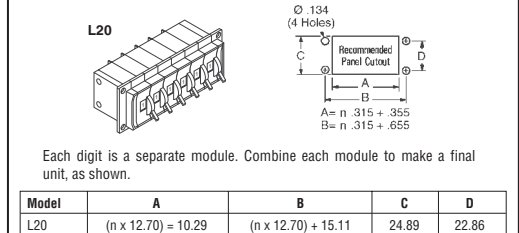
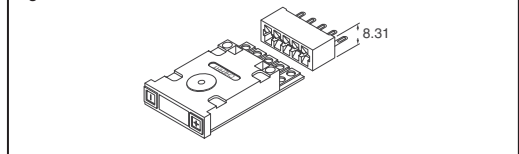


Fig. 4 – Connectors



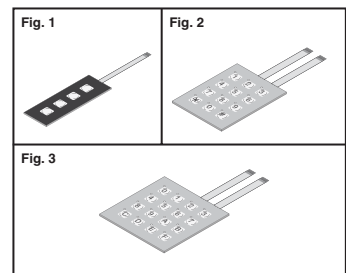
Characteristics: • 1.0mm (.039") tail pitch • Actuating dome offers crisp, tactile feedback to positively indicate circuit transfer • Illuminated models feature legends on embossed keypads • Adhesive backing for easy mounting • **Specifications:** • Power Level: 20mA @ 24VDC • Contact Resistance: 500Ω maximum (10mA @ 10VDC) • Insulation Resistance: 100MΩ minimum • Dielectric Strength: 250VAC minimum, for one minute minimum • Operational Life: 1,000,000 operations minimum • Contact Timing: 10 milliseconds maximum • Operating Temperature: -15°C - 50°C • **LED Specifications:** • Forward Voltage: 2.1V • Forward Current: 20mA • **Connectors:** • Recommended for 5 pin: Molex 0528060570 • Recommended for 8 pin: Molex 0528060810 • 1 connector required for Non-illuminated • 2 connectors required for Dot with Overlay

Note: • 4-Key Keypads have 5 pins • 12-Key and 16-Key Keypads have 8 pins

Series FM Membrane Switch Keypads

Fig.	Illumination	No. of Keys	Surface Sheet	Digi-Key Part No.	Price Each	NKK Part No.
1	Non-illuminated	4	Black	360-2294-ND	13.72	FMBN04BD
	Non-illuminated		Gray	360-2295-ND	13.72	FMBN04BE
2	Dot with Overlay	12	Gray	360-2298-ND	26.19	FMBP12BF
3	Non-illuminated	16	Black	360-2296-ND	18.15	FMBN16BD
			Gray	360-2297-ND	18.15	FMBN16BE
			Gray	360-2299-ND	30.35	FMBP16BF

Description	Digi-Key Part No.	Price Each			Molex Part No.				
						1	10	100	
Molex Mating Connectors for FM Membrane Keypads									
Connector for 12- and 16-Key Keypads	WMS315-ND	.36	.30	.23	52806-0810				



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