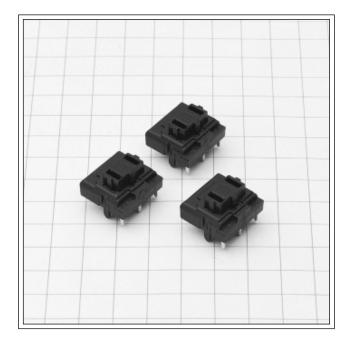
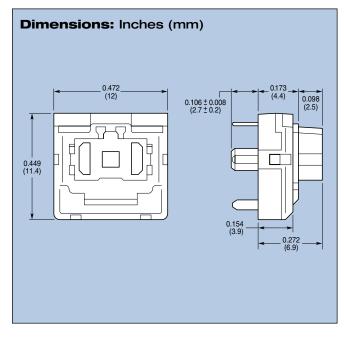
Keyswitch

ML Series

ML Notebook Profile







Specifications

opecineations :	
Voltage	12 VAC/DC max. 2 VDC min.
Current	10mA AC/DC max. 100μA DC min.
Insulation Resistance	100 M Ω at 100V
Bounce Time	≤5ms (at op. speed 0.4m/s)
Life	>20 million operations
Initial Contact Resist.	<200 m Ω (25 m Ω typical)
Materials	
Plastics	Thermoplastic, UL-rated
Contacts	AuAg 10
Spring	Stainless steel
Flammability Rating	UL94HB
Solderability	Wave solder 5 seconds at 500°F
Environmental	
Operating Temp. Range	-10° to +70°C
Storage Temp. Range	-40° to +70°C
Relative Humidity	5% to 95%, non-condensing

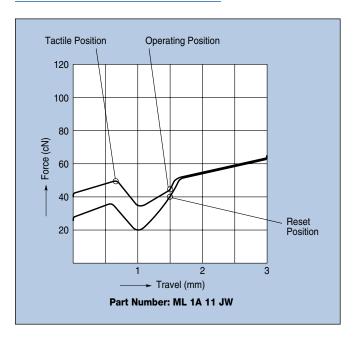
Mechanical Motion

Function	Normally open contact
Total Travel	0.118" -0.020"
Pretravel	0.059" ±0.020"
Initial Actuating Force	1.058 oz min.
Operating Force	1.587 ± 0.705 oz
Tactile Force	1.764 ± 0.705 oz
End force	Max. 2.998 oz, typical 2.469 oz

Keyswitch

ML Series

Force/Travel Diagram



Soldering Parameters

Foam Flux

v 2.3 m/min

h Minimum height however the PCB must be moistened equaly with flux (the foam wave must

not be "interrupted")

Flux

Density 0.84 g/cm

Pre-heating

v 2.3 m/min

t 200° to 280° C (6 pre-heating plates; t increases regulary) on the PCB bottom side. A temperature

of 80° to 85°C is being reached.

h Distance between heating plate and PCB bottom

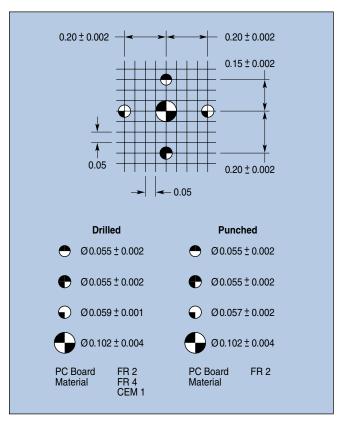
side is approximately 66 mm.

Soldering

v 2.3 m/min Sol< 6° to 7°

t 255° to 260°C (according to display)

Circuit Board Layout



Ordering Information

Part Number	Description
ML1A-11NW	Standard force, tactile, PCB mount
ML1A-11JW	Standard force, tactile, PCB mount, integrated jumper wire

Mouser Electronics

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CHERRY: ML1A-11JW