

# DMG/DLG Series

END-STACKABLE SMT TYPE



Gull Wing Type



T-bend Type

## FEATURES

- End stackable for standard 0.1 integrated circuit pitch
- Molded 0.3 integrated circuit packing outline allowing automatic insertion
- Smaller size makes better heat convection during PC board reflow soldering
- Top tape sealed to withstand reflow soldering, board washing
- All plastics are UL 94V-0 grade fire retardant
- Twin contacts designed to ensure stable contact
- Gold plated contact to ensure low contact resistance and Tin plated terminals to prevent contamination during soldering
- RoHS Compliant

## APPLICATIONS

- Numerical setting for computer terminal equipment
- Price setting for vending machines
- Programming for game machines
- Programming for industrial equipment and measuring instruments

## SPECIFICATIONS

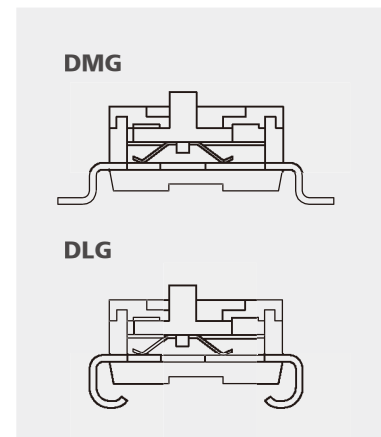
### 1. ELECTRICAL

Contact rating	
switching	25 mA, 24 VDC
non-switching	100 mA
Contact resistance	
initial	50mΩ Max.
after life test	100mΩ Max.
Insulation resistance	1,000 MΩ Min. at 100 VDC
Dielectric strength	500 VDC Min. for 60 seconds
Capacitance between adjacent switches	5 pF Max

### 2. MECHANICAL and ENVIRONMENTAL

Temperature rating	
operating	-40°C to +85°C
storage	-40°C to +85°C
Operation force	800g Max.
Mechanical life	2,000 operations
Humidity	95%RH, 40°C for 96 Hrs.
Vibration	10Hz - 55Hz - 10Hz for 6 Hrs.
Solderability	After flux 245±5 °C for 5±1 second
Resistance to soldering heat	
Solder reflow	Peak temperature 260°C Max.
Reflow soldering process for SMT type	Reference IEC 61760

## CONSTRUCTION



## PART NUMBERING SYSTEM

**DMG** - **DLG** - [ ] - [ ] - [ ] - [ ] - **F**  
 Series name      No. of positions      Sealing      Packaging      RoHS compliant  
 Contact form      Actuator

Series name		Contact form	No. of positions		Actuator	
<b>D M G</b>	Surface mounting gull wing type	<b>1</b> SPST	<b>0 1</b>	<b>0 7</b>	<b>E</b>	Extended actuator
<b>D L G</b>	Surface mounting T-bend type		<b>0 2</b>	<b>0 8</b>	<b>L</b>	Low profile actuator
<b>0 3</b>			<b>0 9</b>			
<b>0 4</b>			<b>1 0</b>			
<b>0 5</b>			<b>1 2</b>			
<b>0 6</b>						

Sealing		Packaging	
[ ]	Without top tape sealed	[ ]	Tube package
<b>T</b>	With top tape sealed (For low profile actuator only)	<b>C</b>	Tape & Reel Package

## DIMENSIONS AND CIRCUITRY

DMG-1 [ ] [ ] [ ] F	Gull wing type	DLG-1 [ ] [ ] [ ] F	J-Hook type																								
<p>Actuator in "ON" position</p> <p>(E) TYPE: 1±0.2 (0.039), 0.4±0.2 (0.016)</p> <p>(L) TYPE: 0.25±0.05 (0.009), 6.6±0.3 (0.260), 9.6±0.5 (0.378)</p> <p>P.C.B LAYOUT (TOP VIEW): 1.15 (0.045), 11.2±0.1 (0.441), 4.6±0.2 (0.181), 2.54X(P-1)±0.2 (0.100X(P-1)), 3.3±0.1 (0.142), 2.54±0.2 (0.100), 0.5±0.1 (0.020), 2.54X(P-1)±0.4 (0.1X(P-1)), 3.1±0.3 (0.122), 0.6±0.3 (0.024)</p>		<p>Actuator in "ON" position</p> <p>(L) TYPE: 7.62±0.3 (0.300), 6.6±0.3 (0.260)</p> <p>(E) TYPE: 1±0.2 (0.039), 0.4±0.2 (0.016)</p> <p>P.C.B LAYOUT (TOP VIEW): 1.15 (0.045), 11.2±0.1 (0.441), 4.6±0.2 (0.181), 2.54X(P-1)±0.2 (0.100X(P-1)), 2.54±0.1 (0.100), 0.5±0.1 (0.020), 2.54X(P-1)±0.4 (0.100X(P-1)), 3.1±0.3 (0.122), 0.5±0.3 (0.035), 2.5±0.1 (0.142)</p>																									
<b>DIMENSION A</b> Unit : mm(inch)			<b>CIRCUIT DIAGRAM</b>																								
<table border="1"> <thead> <tr> <th>POSITIONS</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>12</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>2.50 (0.098)</td> <td>5.04 (0.198)</td> <td>7.58 (0.298)</td> <td>10.12 (0.398)</td> <td>12.66 (0.498)</td> <td>15.20 (0.598)</td> <td>17.74 (0.698)</td> <td>20.28 (0.798)</td> <td>22.82 (0.898)</td> <td>25.36 (0.998)</td> <td>30.43 (1.198)</td> </tr> </tbody> </table>			POSITIONS	1	2	3	4	5	6	7	8	9	10	12	A	2.50 (0.098)	5.04 (0.198)	7.58 (0.298)	10.12 (0.398)	12.66 (0.498)	15.20 (0.598)	17.74 (0.698)	20.28 (0.798)	22.82 (0.898)	25.36 (0.998)	30.43 (1.198)	
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DLG series : 1 pole switches is unavailable.																											

## OPTIONS

- Special marking is available.
- Extended Actuator
- Top Tape Sealed

## PACKAGING

- Tape & Reel Packaging(per EIA STANDARD)

POLE	No. of pcs per reel
1P	2000
2P	1300
3P	1000
4P	1000
5P	1000
6P	1000
7P	1000
8P	1000
9P	1000
10P	1000
12P	1000