

MDG & MPG SERIES TRANSFER DIP SWITCHES SPDT & DPDT MODELS

FEATURES

Gold plated contacts.
Self-cleaning contacts.
UL94V-O materials used throughout.
Process compatible with tape seal.
Dual in-line .100" x .300" term. spacing.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life	2000 cycles minimum
Contact rating, non-switching	100 mA at 50 VDC
Contact rating, switching	25 mA at 24 VDC
Contact resistance	50 m Ω max. initial - 100 m Ω max. after life test
Insulation resistance at 100 VDC	1000 M Ω minimum
Dielectric strength	500 VDC for 1 minute
Capacitance	5 pf. max. between adjacent terminals

MECHANICALS, THERMALS

Mechanical life	3000 cycles minimum
Operating force	MDG; 800 grmas max. per pole MPG; 400 grams max. per pole.
Vibration	Per MIL-STD-202, METHOD 204B
Humidity	95% relative humidity, 40°C for 96 hours
Temperature range	Operating: -25°C to 70°C Storage: -40°C to 85°C

SOLDERING & CLEANING RECOMMENDATIONS

Hand soldering	320°C max. for 2 seconds max.(30 watt iron max.)
Wave soldering	230°C max. for 3 seconds max.
Cleaning (with tape seal)	Spray wash from top side only

MATERIALS

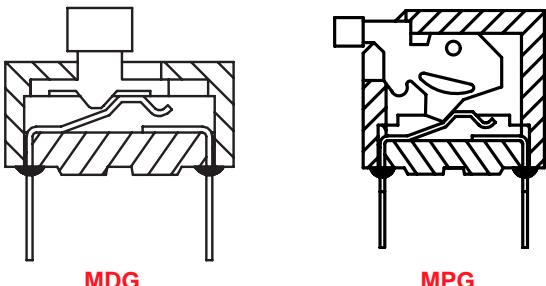
Cover	UL94V-O, Polyamide
Actuators	UL94V-O, Polyamide
Contacts & Terminals	Gold over nickel plate over brass
Sealing	Epoxy
Tape seal	Polyester film

PACKAGING

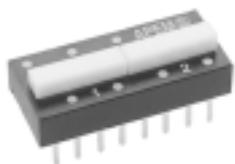
DIP switches are shipped in standard IC tubes with all actuators in the "OFF" position

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SWITCH CROSS SECTION

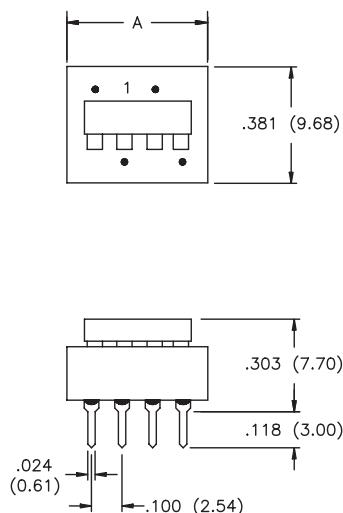


**MDG Series
Slides
DPDT**



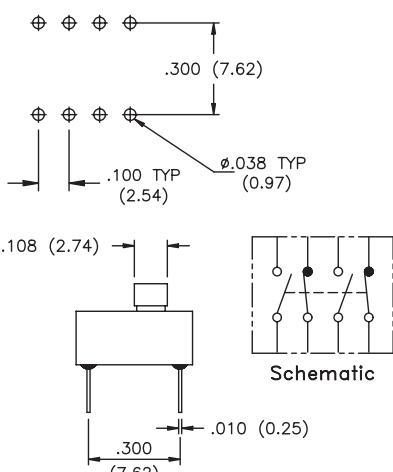
MDG602S

Mechanical Outline



Printed circuit board layout

Hole size and layout tolerance
 $\pm .005$ (0.12) non-cumulative



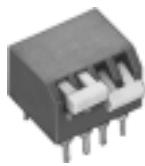
Schematic

Actuator Style & Contact Material	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. 'A' Dimension $\pm .012$ (0,30mm) Pos.
Std'd Act. Gold Cont.	MDG601S MDG602S	MDG601ST MDG602ST	1 .461 (11,7) 2 .854 (21,7)

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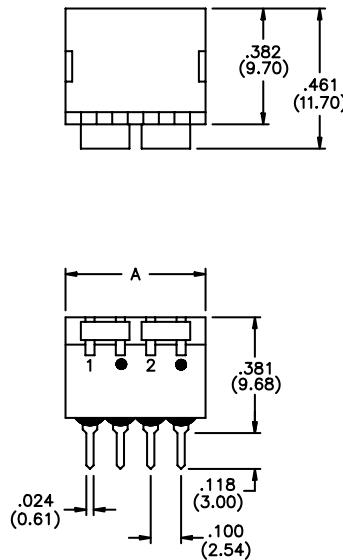
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**MPG Series
Piano
SPDT**



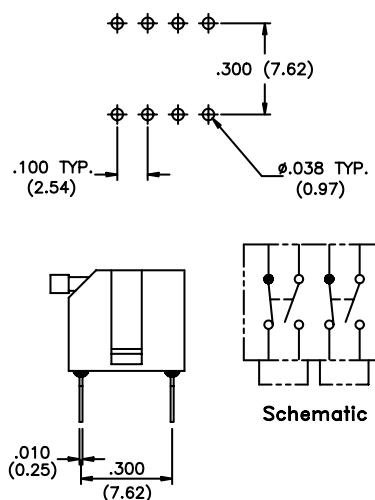
MPG302B

Mechanical Outline



Printed circuit board layout

Hole size and layout tolerance
 $\pm .002$ (0.05) non-cumulative



Schematic

Actuator Style & Contact Material	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. 'A' Dimension $\pm .012$ (0,30mm) Pos.
Piano	MPG301B MPG302B	MPG301BT MPG302BT	1 .264 (6,7) 2 .461 (11,7)
	MPG303B MPG304B	MPG303BT MPG304BT	3 .657 (16,7) 4 .854 (21,7)
	MPG305B MPG306B	MPG305BT MPG306BT	5 1.050 (26,7) 6 1.250 (31,8)

Mouser Electronics

Authorized Distributor

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Apem:

[MPG301B](#) [MPG301BT](#) [MPG302B](#) [MPG302BT](#) [MPG303B](#) [MPG304B](#) [MPG304BT](#) [MPG305B](#) [MPG306BT](#)
[MDG601ST](#) [MDG602ST](#) [MDG601S](#)