MDG, MDS, MPG & MPS SERIES **DIP SWITCHES**

DPST, SPDT, 3PST, 4PST & DPDT MODELS

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

GENERAL SPECIFICATIONS

ELECTRICALS

Electrical life Contact rating, non-switching

Contact rating, switching

Contact resistance Insulation resistance at 100 VDC

Dielectric strength

Capacitance

2000 cycles minimum 100 mA at 50 VDC

25 mA at 24 VDC

50 m Ω max. initial - 100 m Ω max. after life test

1000 M Ω minimum 500 VDC for 1 minute

5 pf. max. between adjacent terminals

MECHANICALS, THERMALS

Mechanical life

3000 cycles minimum

Operating force Vibration

MDG/MDS: 800 grams max. per pole. MPG/MPS: 400 grams max. per pole.

Per MIL-STD-202, METHOD 204B 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

Humidity

Ultrasonic clean 120 seconds maximum.

(with standard tape seal in place)

MATERIALS

Cover Actuators

UL94V-O, Polyamide UL94V-O, Polyamide

Contacts & Terminals (MDG & MPG)

Gold over nickel plate over brass

Contacts & Terminals (MDS & MPS)

Silver over nickel plate over brass

Sealing

Epoxy

Tape seal

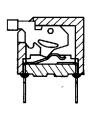
Polyester film

PACKAGING

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

SWITCH CROSS SECTIONS



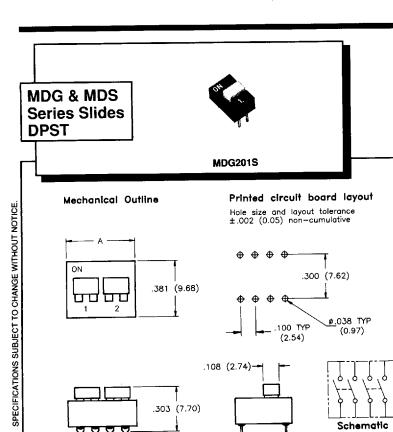


MDG & MDS

MPG & MPS

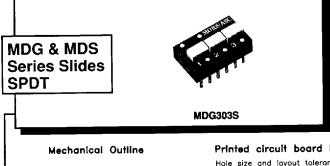
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Actuator	MODEL	MODEL				
Style &	NO.	NO.	No.	'A' Dimension		
Contact	with no	with	of	±012 ((0,30mm)	
Material	tape seal	tape seal	Pos.			
Standard	MDG201S	MDG201ST	1	.264	(6,7)	
Actuator	MDG202S	MDG202ST	2	.461	(11,7)	
	MDG203S	MDG203ST	3	.657	(16,7)	
Gold	MDG204S	MDG204ST	4	.854	(21,7)	
Contacts	MDG205S	MDG205ST	5	1.050	(26,7)	
	MDG206S	MDG206ST	6	1.250	(31,8)	
Standard	MDS201S	MDS201ST	1	.264	(6,7)	
Actuator	MDS202S	MDS202ST	2	.461	(11,7)	
1	MDS203S	MDS203ST	3	.657	(16,7)	
Silver	MDS204S	MDS204ST	4	.854	(21,7)	
Contacts	MDS205S	MDS205ST	5	1.050	(26,7)	
	MDS206S	MDS206ST	6	1.250	(31,8)	

Note: Right angle configurations available- consult factory



.118 (3.00)

.100 (2.54)

.010 (2.25)

.300

(7.62)

Mechanical Outline	Printed circuit board layout Hole size and layout tolerance ±.002 (0.05) non-cumulative
.381 (9.68)	.300 (7.62) • • • • • • .300 (7.62) • • • • • • .38 TYP (2.54) (0.97)
.108	Schematic

Actuator Style &	MODEL NO.	MODEL NO.	No.		nension
Contact	with no	with	of	工0121	(0,30mm)
Material	tape seal	tape seal	Pos		
Standard	MDG301S	MDG301ST	1	.264	(6,7)
Actuator	MDG302S	MDG302ST	2	.461	(11,7)
	MDG303S	MDG303ST	3	.657	(16,7)
Gold	MDG304S	MDG304ST	4	.854	(21,7)
Contacts	MDG305S	MDG305ST	5	1.050	(26,7)
	MDG306S	MDG306ST	6	1.250	(31,8)
Standard	MDS301S	MDS301ST	1	.264	(6,7)
Actuator	MDS302S	MDS302ST	2	.461	(11,7)
	MDS303S	MDS303ST	3	.657	(16,7)
Silver	MDS304S	MDS304ST	4	.854	(21 <u>,</u> 7)
Contacts	MDS305S	MDS305ST	5	1.050	(26,7)
	MDS306S	MDS306ST	6	1.250	(31,8)

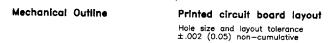
Note: Right angle configurations available- consult factory

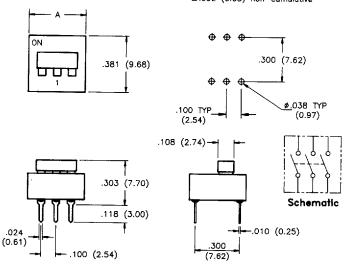
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MDS402S





Actuator	MODEL	MODEL			
Style &	N0.	NO.	No.	'A' Di	mension
Contact	with no	with	of	±012	(0,30mm)
Material	tape seal	tape seal	Pos		•
Standard	MDG401S	MDG401ST	1	.362	(9,2)
Actuator	MDG402S	MDG402ST	2	.657	(16,7)
Gold	MDG403S	MDG403ST	3	.953	(24,2)
Contacts	MDG404S	MDG404ST	4	1.250	(31,8)
Standard	MDS401S	MDS401ST	1	.362	(9,2)
Actuator	MDS402S	MDS402ST	2	.657	(16,7)
Silver	MDS403S	MDS403ST	3	.953	(24,2)
Contacts	MDS404S	MDS404ST	4	1.250	(31,8)

Note: Right angle configurations available- consult factory

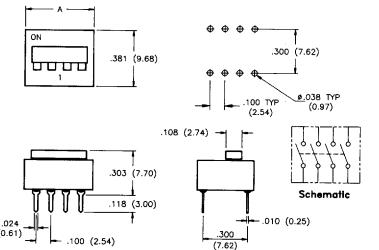
MDG & MDS Series Slides 4PST



Mechanical Outline	Printed	circuit	board
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Hole size and layout tolerance ±.002 (0.05) non-cumulative

layout

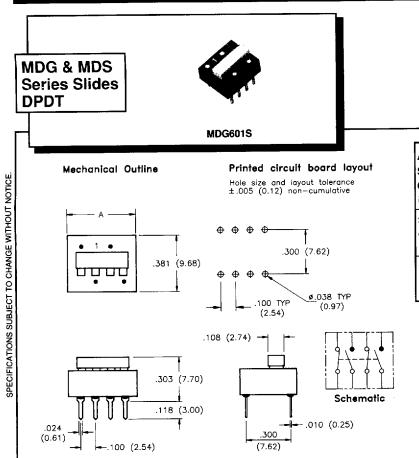


Actuator Style & Contact Material	MODEL N0. with no tape seal	MODEL NO. with tape seal	No. of Pos.	±.012	mension (0,30mm)
Std'd Act.	MDG501S	MDG501ST	1	.461	(11,7)
Gold	MDG502S	MDG502ST	2	.854	(21,7)
Contacts	MDG503S	MDG503ST	3	1.250	(31,8)
Sd'd Act.	MDS501S	MDS501ST	1	.461	(11,7)
Silver	MDS502S	MDS502ST	2	.854	(21,7)
Contacts	MDS503S	MDS503ST	3	1.250	(31,8)

Note: Right angle configurations available- consult factory

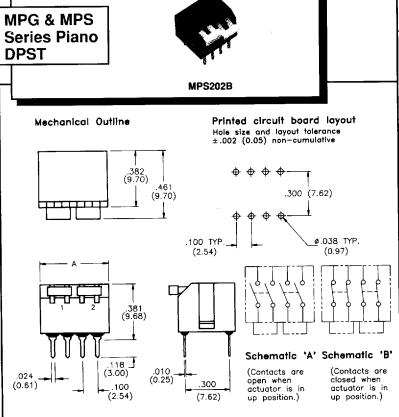
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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



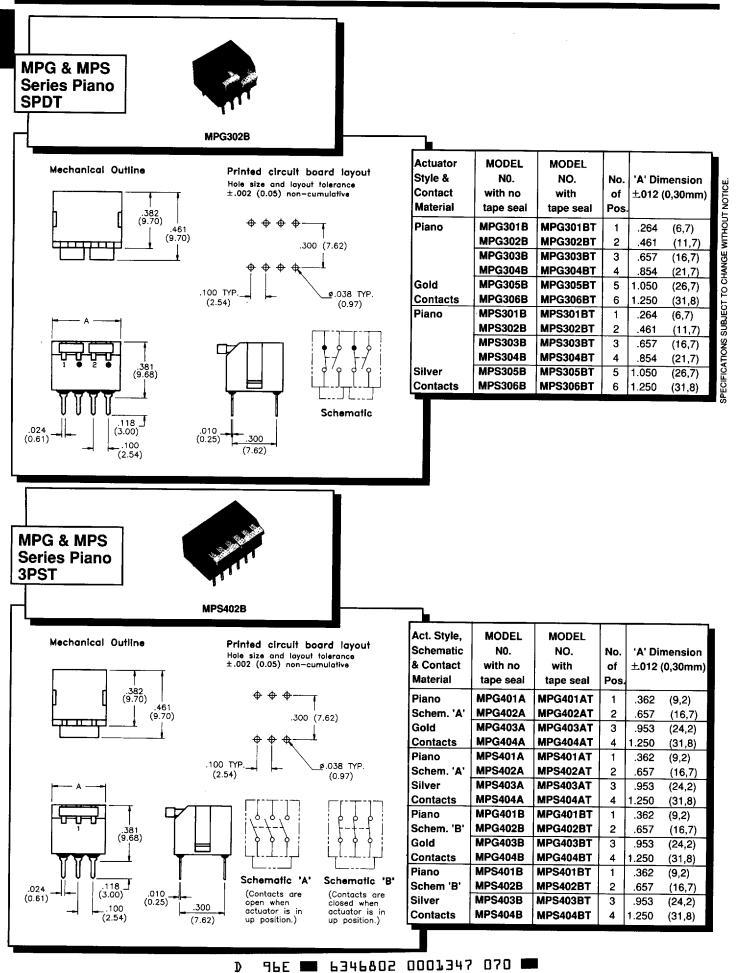
Actuator Style & Contact Material	MODEL NO. with no tape seal	MODEL NO. with tape seal	No. of Pos.	±012	nension (0,30mm)
Std'd Act.	MDG601S	MDG601ST	1	.461	(11,7)
Gold Cont.	MDG602S	MDG602ST	2	.854	(21,7)
	MDG603S	MDG603ST	3	1.250	(31,8)
Sd'd Act.	MDS601S	MDS601ST	1	.461	(11,7)
Silver Cont.	MDS602S	MDS602ST	2	.854	(21,7)
	MDS603S	MDS603ST	3	1.250	(31,8)

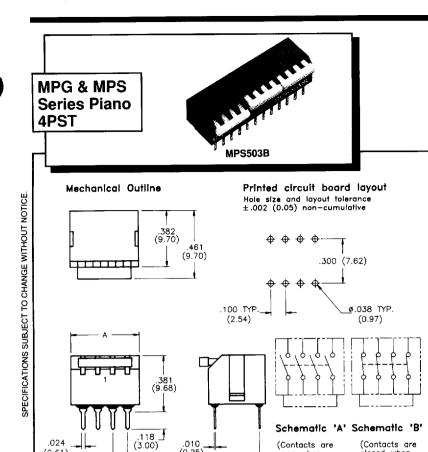
Note: Right angle configurations available- consult factory



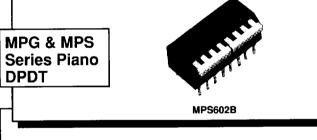
Į	Act. Style,	MODEL	MODEL.				
	Schematic	NO.	NO.	No.	'A' Din	nension	
	& Contact	with no	with	of	±012 (0,30mm)		
1	Material	tape seal	tape seal	Pos.			
	Piano	MPG201A	MPG201AT	1	.264	(6,7)	
	Schematic	MPG202A	MPG202AT	2	.461	(11,7)	
ļ	' Α '	MPG203A	MPG203AT	3	.657	(16,7)	
+		MPG204A	MPG204AT	4	.854	(21,7)	
	Gold	MPG205A	MPG205AT	5	1.050	(26,7)	
1	Contacts	MPG206A	MPG206AT	6_	1.250	(31,8)	
	Piano	MPS201A	MPS201AT	1	.264	(6,7)	
	Schematic	MPS202A	MPS202AT	2	.461	(11,7)	
	'A'	MPS203A	MPS203AT	3	.657	(16,7)	
		MPS204A	MPS204AT	4	.854	(21,7)	
	Silver	MPS205A	MPS205AT	5	1.050	(26,7)	
	Contacts	MPS206A	MPS206AT	6	1.250	(31,8)	
	Piano	MPG201B	MPG201BT	1	.264	(6,7)	
	Schematic	MPG202B	MPG202BT	2	.461	(11,7)	
	'B'	MPG203B	MPG203BT	3	.657	(16,7)	
		MPG204B	MPG204BT	4	.854	(21,7)	
	Gold	MPG205B	MPG205BT	5	1.050	(26,7)	
	Contacts	MPG206B	MPG206BT	6	1.250	(31,8)	
	Piano	MPS201B	MPS201BT	1	.264	(6,7)	
	Schematic	MPS202B	MPS202BT	2	.461	(11,7)	
	'B'	MPS203B	MPS203BT	3	.657	(16,7)	
	1	MPS204B	MPS204BT	4	.854	(21,7)	
	Silver	MPS205B	MPS205BT	5	1.050	(26,7)	
	Contacts	MPS206B	MPS206BT	6	1.250	(31,8)	

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Act. Style, Schematic & Contact Material	MODEL N0. with no tape seal	MODEL NO. with tape seal	No. of Pos.		nension 0,30mm)
Piano	MPG501A	MPG501AT	1	.461	(11,7)
Schem. 'A'	MPG502A	MPG502AT	2	.854	(21,7)
Gold Cont.	MPG503A	MPG503AT	3	1.250	(31,8)
Piano	MPS501A	MPS501AT	1	.461	(11,7)
Schem. 'A'	MPS502A	MPS502AT	2	.854	(21,7)
Silver Cont.	MPS503A	MPS503AT	3	1.250	(31,8)
Piano	MPG501B	MPG501BT	1	.461	(11,7)
Schem. 'B'	MPG502B	MPG502BT	2	.854	(21,7)
Gold Cont.	MPG503B	MPG503BT	3	1.250	(31,8)
Piano	MPS501B	MPS501BT	1	.461	(11,7)
Schem. 'B'	MPS502B	MPS502BT	2	.854	(21,7)
Silver Cont.	MPS503B	MPS503BT	3	1.250	(31,8)



.010 (0.25)

.300 (7.62)

_.100 (2.54)

.118 (3.00)

_.100 (2.54)

(0.61)

.024

(0.61)

Mechanical Outline 382 (9.70) 461 (9.70)	Printed circuit board layout Hole size and layout tolerance ±:002 (0.05) non-cumulative .300 (7.62) .100 TYP. (2.54)
, 381 (9.68)	

Actuator Style & Contact Material	MODEL N0. with no tape seal	MODEL NO. with tape seal	No. of Pos.	±012 (nension 0,30mm)
Piano	MPG601B	MPG601BT	1	.461	(11,7)
	MPG602B	MPG602BT	2	.854	(21,7)
Gold Cont.	MPG603B	MPG603BT	3	1.250	(31,8)
Piano	MPS601B	MPS601BT	1	.461	(11,7)
	MPS602B	MPS602BT	2	.854	(21,7)
Silver Cont.	MPS603B	MPS603BT	3	1.250	(31,8)

Schematic

(Contacts are closed when actuator is in up position.)

(Contacts are

open when actuator is in up position.)

A14

(7.62)

Mouser Electronics

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