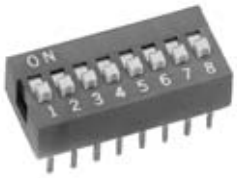
DS-DP-DA series

DIP switches

Distinctive features and specifications





- ❑ **Standard, piano and right angle models**
- ❑ **2 to 12 positions**
- ❑ **Top tape sealing option**

ELECTRICAL SPECIFICATIONS

- Current/voltage rating :
  - non-switching : 100mA 50VDC
  - switching : 50mA 24VDC
- Contact resistance (at 100mA) :
  50mΩ max. at initial
  100mΩ after life test
- Insulation resistance (at 100VDC +/-15V) :
  100 MΩ min. between adjacent terminals
- Dielectric strength : 500VDC for one minute
- Capacitance : 5 pF between adjacent terminals
- Circuit : single pole, single throw
- Electrical life : 2.000 cycles min. per switch

MATERIALS

- Case, UL94-V0, glass fiber filled PBT, black
- Cover : UL94-V0,glass fiber filled PBT, red
- Actuator : UL94-V0, glass fiber filled PBT, white
- Terminals/contacts : gold over nickel plated phosphor bronze
- Terminal seal : epoxy
- Tape seal : polyester film

GENERAL SPECIFICATIONS

- Operating force : DP models : 4N - DS/DA models : 8N
- Travel : 2 mm (.078)
- Mechanical life : 5.000 cycles min. per switch
- Vibration test : MIL-STD-202F method 201A
- Shock test : MIL-STD-202F method 213B, conditon A
- Operating temperature : -20°C to +70°C

RECOMMENDED SOLDERING AND CLEANING PROCESSES

- Hand soldering : 320°C max. for 2 seconds max. (30 watt iron max.)
- Wave soldering : 260°C max. for 5 seconds max.
- Force rinse, high agitation or triple bath cleaning method (**with tape seal, option T**) : freon TF or TE. When vapor methods are used, do not subject switch to solvents above 51°C.

Note : keep switches in "OFF" position during soldering and cleaning for best results.

Dimensions : first dimensions are in mm while inches are shown as bracketed numbers.

Packaging unit : standard IC tubes - Quantities depending on model. See table below.

DS/DSR	Quantity
DS(R)-02	72
DS(R)-03	51
DS(R)-04	40
DS(R)-05	32
DS(R)-06	27
DS(R)-07	24
DS(R)-08	21
DS(R)-09	19
DS(R)-10	17
DS(R)-12	14

DS-T/DSR-T	Quantity
DS(R)-02T	72
DS(R)-03T	51
DS(R)-04T	40
DS(R)-05T	32
DS(R)-06T	27
DS(R)-07T	24
DS(R)-08T	21
DS(R)-09T	19
DS(R)-10T	17
DS(R)-12T	14

DA	Quantity
DA-02	73
DA-03	52
DA-04	40
DA-05	33
DA-06	28
DA-07	24
DA-08	21
DA-09	19
DA-10	17
DA-12	14

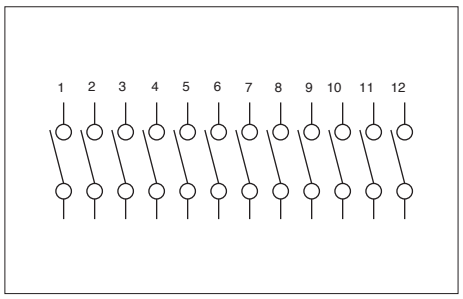
DA-T	Quantity
DA-02T	70
DA-03T	50
DA-04T	39
DA-05T	32
DA-06T	28
DA-07T	24
DA-08T	21
DA-09T	19
DA-10T	17
DA-12T	14

DP/DPL	Quantity
DP(L)-02	70
DP(L)-03	50
DP(L)-04	39
DP(L)-05	32
DP(L)-06	27
DP(L)-08	21
DP(L)-10	17
DP(L)-12	14

DP-T/DPL-T	Quantity
DP(L)-02T	65
DP(L)-03T	49
DP(L)-04T	39
DP(L)-05T	32
DP(L)-06T	27
DP(L)-08T	21
DP(L)-10T	17
DP(L)-12T	14

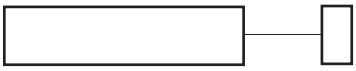
DS/DSR series

Standard DIP switches

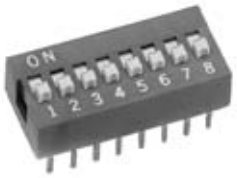


- Raised or recessed actuator
- 2 to 12 positions

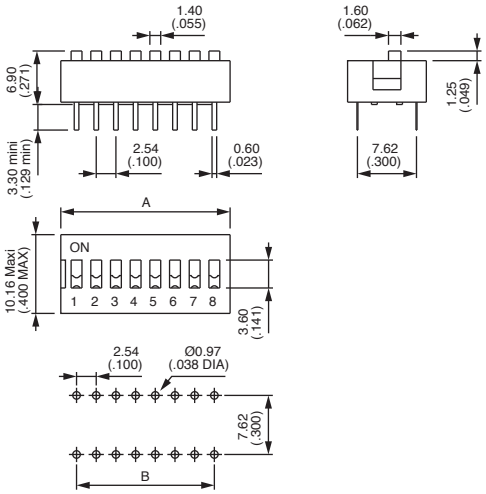
MODEL STRUCTURE



Raised actuator : DS



Model No	No. pos.	Dim "A"	Dim. "B"
DS-02	2	6,60 (.259)	2,54 (.100)
DS-03	3	9,14 (.359)	5,08 (.200)
DS-04	4	11,68 (.459)	7,62 (.300)
DS-05	5	14,22 (.559)	10,16 (.400)
DS-06	6	16,76 (.659)	12,70 (.500)
DS-07	7	19,30 (.759)	15,24 (.600)
DS-08	8	21,84 (.859)	17,78 (.700)
DS-09	9	24,38 (.959)	20,32 (.800)
DS-10	10	26,92 (1.059)	22,86 (.900)
DS-12	12	32,00 (1.259)	27,94 (1.100)

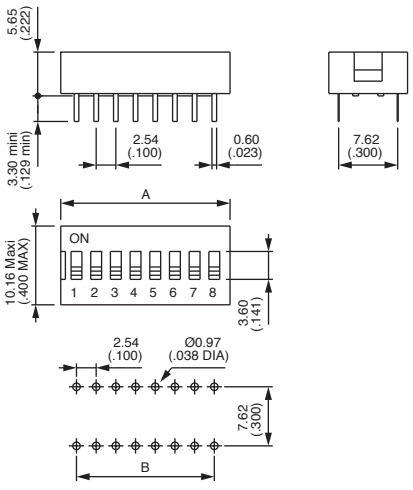


Top tape sealed : add "T" after model number.

Recessed actuator : DSR



Model No	No. pos.	Dim "A"	Dim. "B"
DSR-02	2	6,60 (.259)	2,54 (.100)
DSR-03	3	9,14 (.359)	5,08 (.200)
DSR-04	4	11,68 (.459)	7,62 (.300)
DSR-05	5	14,22 (.559)	10,16 (.400)
DSR-06	6	16,76 (.659)	12,70 (.500)
DSR-07	7	19,30 (.759)	15,24 (.600)
DSR-08	8	21,84 (.859)	17,78 (.700)
DSR-09	9	24,38 (.959)	20,32 (.800)
DSR-10	10	26,92 (1.059)	22,86 (.900)
DSR-12	12	32,00 (1.259)	27,94 (1.100)

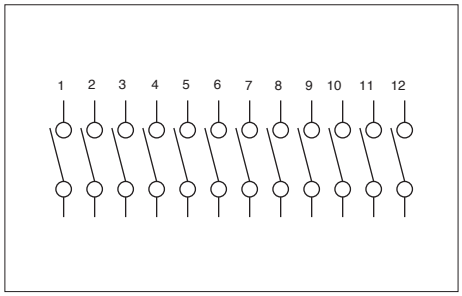


Top tape sealed : add "T" after model number.

F

DP/DPL series

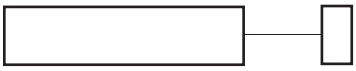
Piano DIP switches



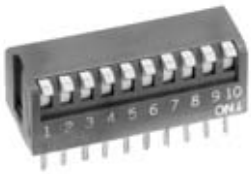
- Short or long actuator
- 2 to 12 positions

Note : Push down for "ON" is our standard type.
Push down for "OFF" is also available on special order, consult factory.

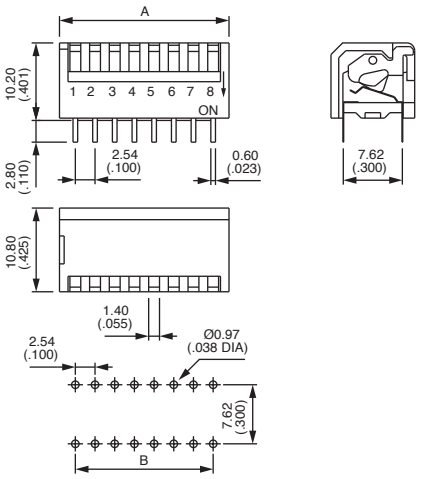
MODEL STRUCTURE



Short actuator : DP



Model No	No. pos.	Dim "A"	Dim. "B"
DP-02	2	6,63 (.261)	2,54 (.100)
DP-03	3	9,17 (.361)	5,08 (.200)
DP-04	4	11,71 (.461)	7,62 (.300)
DP-05	5	14,25 (.561)	10,16 (.400)
DP-06	6	16,8 (.661)	12,70 (.500)
DP-08	8	21,87 (.861)	17,78 (.700)
DP-10	10	26,95 (1.061)	22,86 (.900)
DP-12	12	32,03 (1.261)	27,94 (1.100)

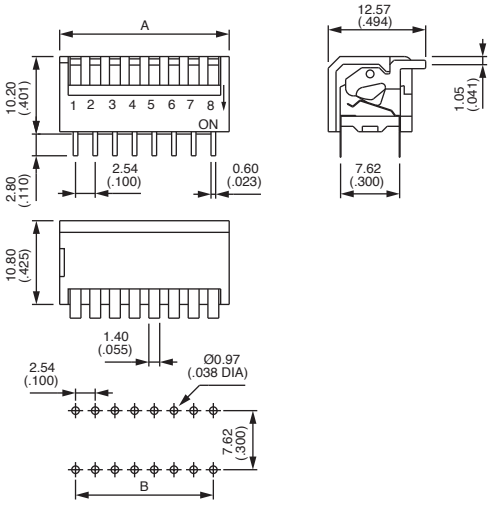


Top tape sealed : add "T" after model number.

Long actuator : DPL



Model No	No. pos.	Dim "A"	Dim. "B"
DPL-02	2	6,63 (.261)	2,54 (.100)
DPL-03	3	9,17 (.361)	5,08 (.200)
DPL-04	4	11,71 (.461)	7,62 (.300)
DPL-05	5	14,25 (.561)	10,16 (.400)
DPL-06	6	16,8 (.661)	12,70 (.500)
DPL-08	8	21,87 (.861)	17,78 (.700)
DPL-10	10	26,95 (1.061)	22,86 (.900)
DPL-12	12	32,03 (1.261)	27,94 (1.100)

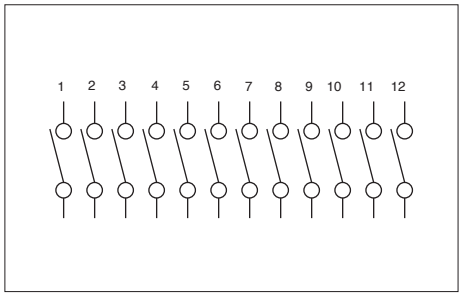


Top tape sealed : add "T" after model number.

F

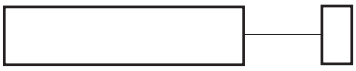
DA series

Right angle DIP switches



- 2 to 12 positions

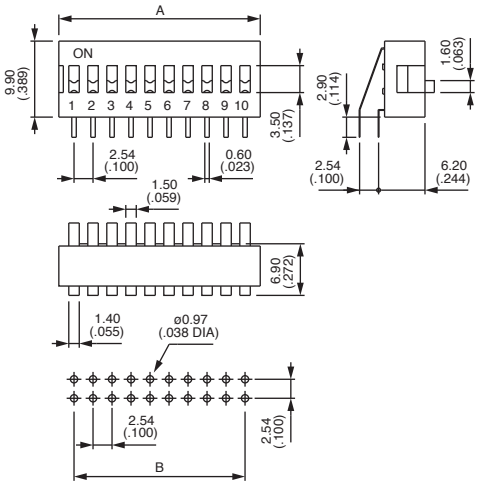
MODEL STRUCTURE



Raised actuator : DA



Model No	No. pos.	Dim "A"	Dim. "B"
DA-02	2	6,60 (.259)	2,54 (.100)
DA-03	3	9,14 (.359)	5,08 (.200)
DA-04	4	11,68 (.459)	7,62 (.300)
DA-05	5	14,22 (.559)	10,16 (.400)
DA-06	6	16,76 (.659)	12,70 (.500)
DA-07	7	19,30 (.759)	15,24 (.600)
DA-08	8	21,84 (.859)	17,78 (.700)
DA-09	9	24,38 (.959)	20,32 (.800)
DA-10	10	26,92 (1.059)	22,86 (.900)
DA-12	12	32,00 (1.259)	27,94 (1.100)



Top tape sealed : add "T" after model number.

F