



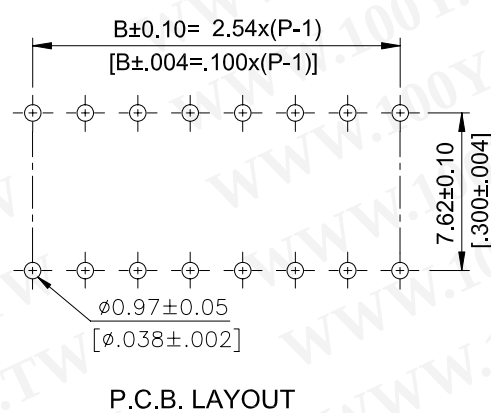
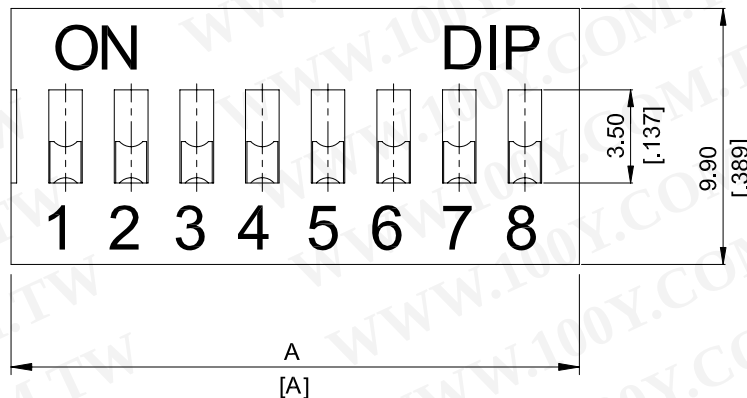
DIPTRONICS MANUFACTURING INC.

DS,DP,DA SERIES



DIMENSIONS

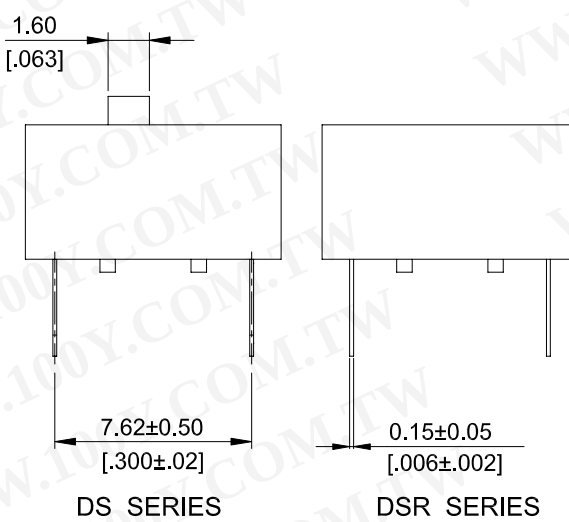
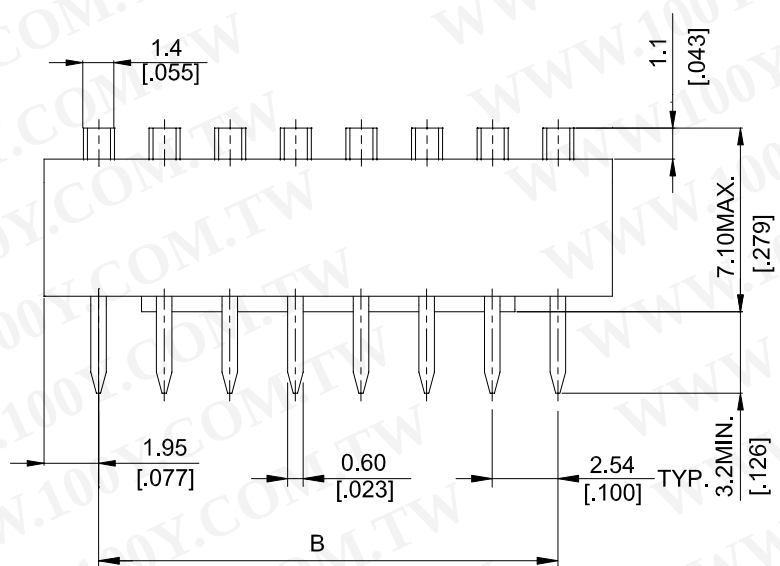
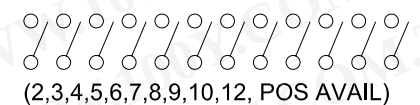
DS(R)



勝特力材料 886-3-5753170
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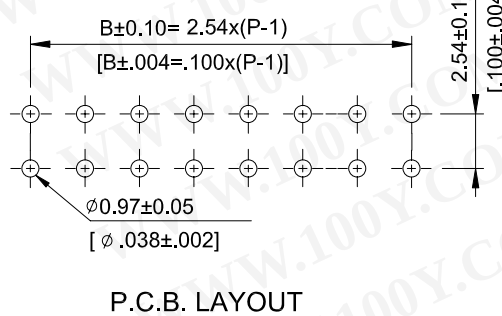
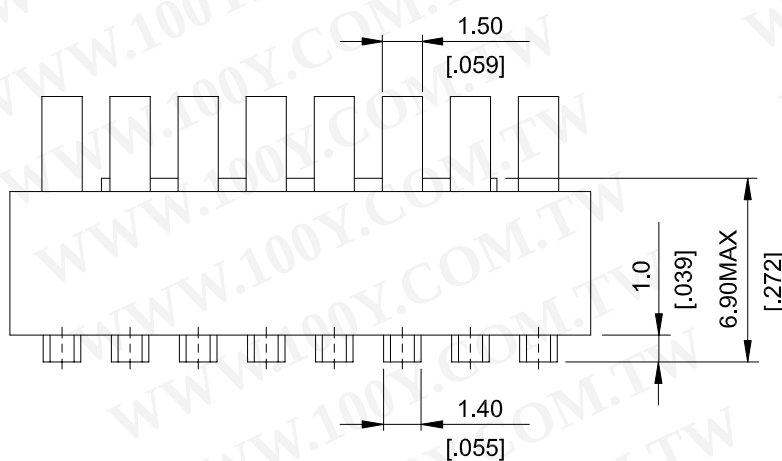
DS -12-V	12	31.84[1.254]	27.94[1.100]
DSR-12-V	12	31.84[1.254]	27.94[1.100]
DS -10-V	10	26.76[1.054]	22.86[.900]
DSR-10-V	10	26.76[1.054]	22.86[.900]
DS -09-V	9	24.22[.954]	20.32[.800]
DSR-09-V	9	24.22[.954]	20.32[.800]
DS -08-V	8	21.68[.854]	17.78[.700]
DSR-08-V	8	21.68[.854]	17.78[.700]
DS -07-V	7	19.14[.754]	15.24[.600]
DSR-07-V	7	19.14[.754]	15.24[.600]
DS -06-V	6	16.60[.654]	12.70[.500]
DSR-06-V	6	16.60[.654]	12.70[.500]
DS -05-V	5	14.06[.554]	10.16[.400]
DSR-05-V	5	14.06[.554]	10.16[.400]
DS -04-V	4	11.52[.454]	7.62[.300]
DSR-04-V	4	11.52[.454]	7.62[.300]
DS -03-V	3	8.98[.354]	5.08[.200]
DSR-03-V	3	8.98[.354]	5.08[.200]
DS -02-V	2	6.44[.254]	2.54[.100]
DSR-02-V	2	6.44[.254]	2.54[.100]
DS -01-V	1	3.90[.153]	-
DSR-01-V	1	3.90[.153]	-

SCHEMATIC(TYP.)



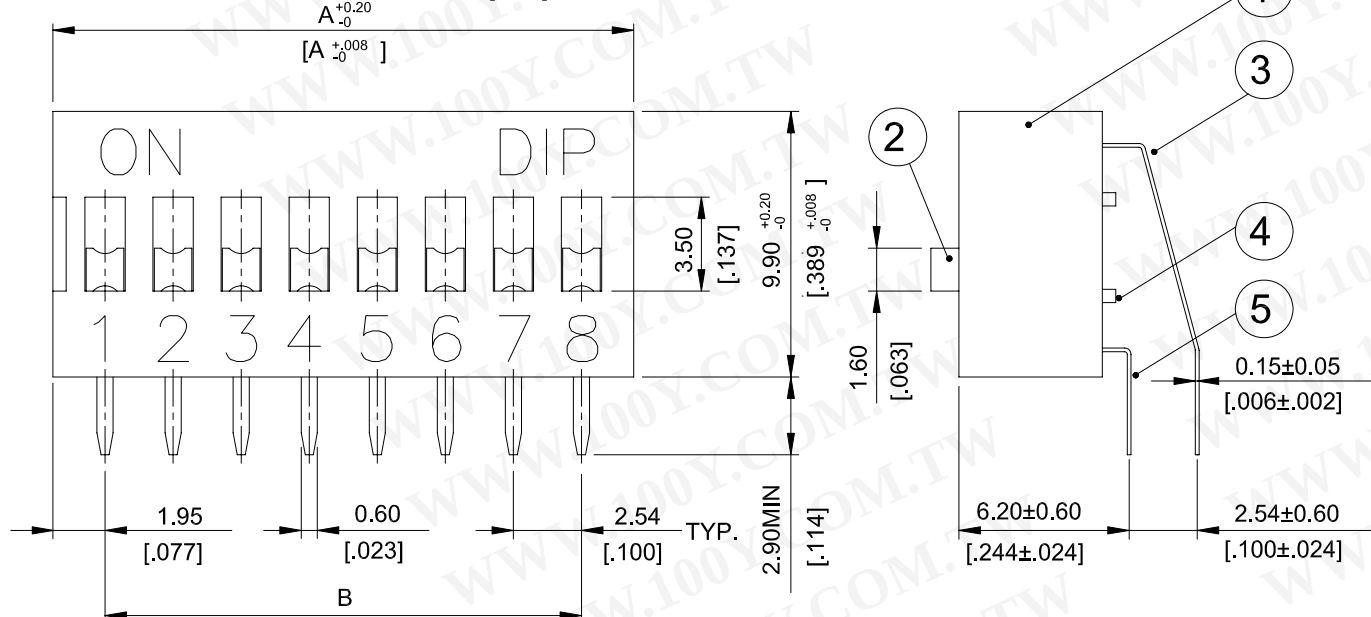
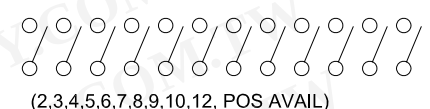
General Tolerance : ±0.2mm

DA



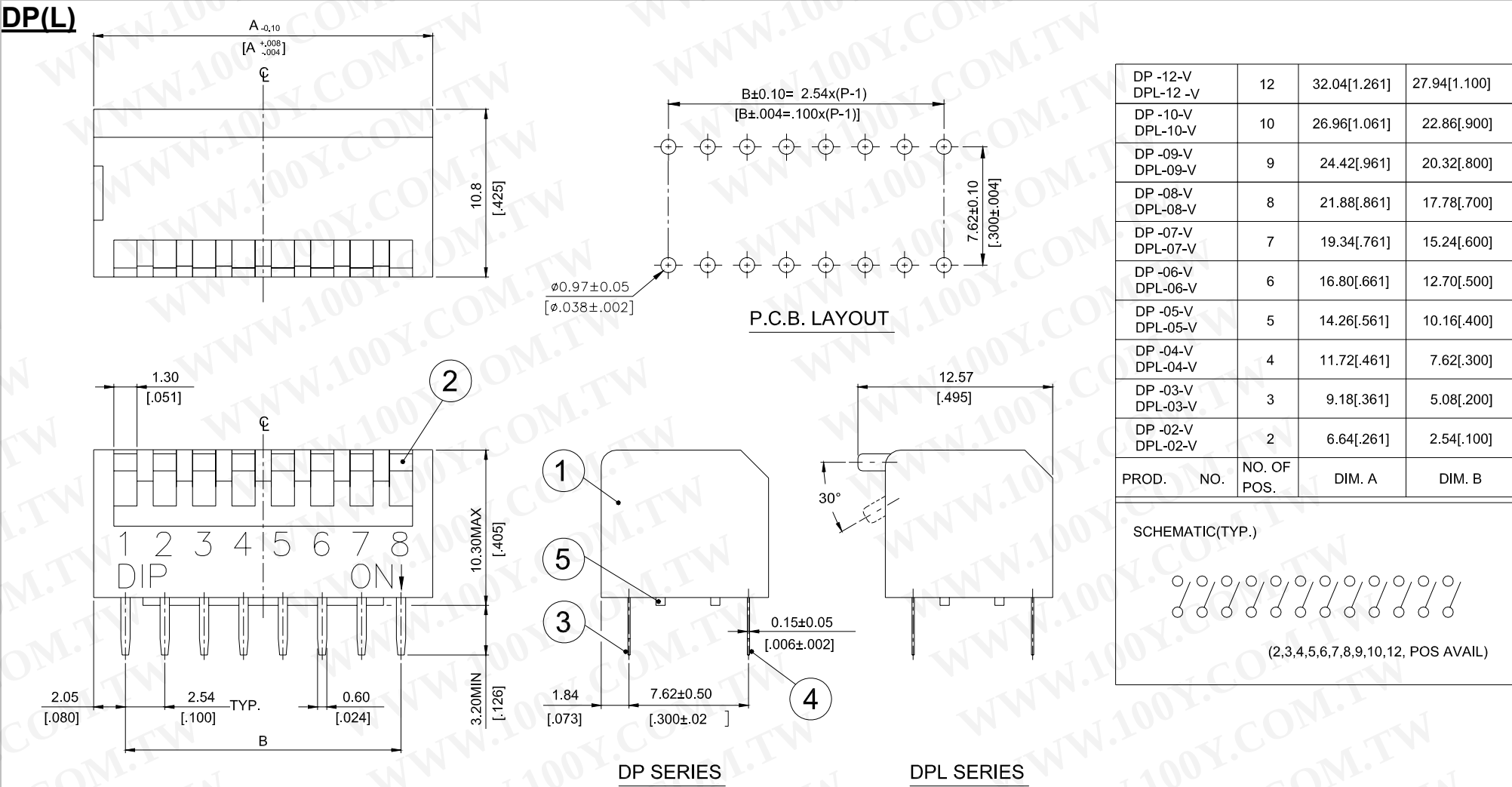
DA-12-V	12	31.84[1.254]	27.94[1.100]
DA-10-V	10	26.76[1.054]	22.86[.900]
DA-09-V	9	24.22[.954]	20.32[.800]
DA-08-V	8	21.68[.854]	17.78[.700]
DA-07-V	7	19.14[.754]	15.24[.600]
DA-06-V	6	16.60[.654]	12.70[.500]
DA-05-V	5	14.06[.554]	10.16[.400]
DA-04-V	4	11.52[.454]	7.62[.300]
DA-03-V	3	8.98[.354]	5.08[.200]
DA-02-V	2	6.44[.254]	2.54[.100]

SCHEMATIC(TYP.)



General Tolerance : ±0.2mm

DP(L)



General Tolerance : ±0.2mm

HOW TO ORDER

Ordering code format: ☐ ☐ ☐ - ☐ ☐ ☐ - ☐ - ☐ ☐

Legend:

- ☐ = Tube
- ☐ = Push Down On
- ☐ = Push Down Off
- ☐ = Raised Actuator
- ☐ = Recessed Actuator
- ☐ = Raised Actuator
- ☐ = Short Key
- ☐ = Long Key

DS = Slide Type Dip Switch
DA = Right Angle Type Dip Switch
DP = Piano Type Dip Switch

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Package :
☐ = Tube

Soldering :
V = Lead Free Solderable
Q=Halogen Free(Only for Black)

Sealed :
☐ = Without Tape
T = Top Tape Sealed

▲ On/Off Position :
☐ = Push Down On
U = Push Down Off
<▲ U Only For DP(L)>

Color Of Cover :
☐ = Red
▲ B = Blue
▲ K = Black
<▲ Subject to Our Final Confirmation>

Number Of Position :
01 = 1 Positions <Only For DS(R)>
02 = 2 Positions 07 = 7 Positions
03 = 3 Positions 08 = 8 Positions
04 = 4 Positions 09 = 9 Positions
05 = 5 Positions 10 = 10 Positions
06 = 6 Positions 12 = 12 Positions

DS
☐ = Raised Actuator
R = Recessed Actuator

DA
☐ = Raised Actuator

DP
☐ = Short Key
L = Long Key

DS = Slide Type Dip Switch
DA = Right Angle Type Dip Switch
DP = Piano Type Dip Switch

SPECIFICATION

△MECHANICAL
Mechanical Life: 2,000 operations per switch.
Operation Force: 400gf max. (DP Series)
1,000gf max. (DS & DA Series)
Stroke: 2.0mm
Operation Temperature: -20℃ to +70℃
Storage Temperature: -40℃ to +85℃

△ELECTRICAL
Electrical Life: 2,000 operations per switch 24VDC, 25mA
Non-Switching Rating: 100mA , 50VDC
Switching Rating: 25mA , 24VDC
Contact Resistance: 50mΩ max. at initial
Insulation Resistance:{at 500 VDC} 100MΩ min.
Dielectric Strength: 500VAC / 1 minute
Circuit: SPST

MATERIAL

△BASE: UL94V-0 PBT High Thermoplastic
Color: Black
△COVER UL94V-0 PBT High Thermoplastic
Color: Red, Black, Blue
△ACTUATOR: UL94V-0 PBT High Thermoplastic
Color: White
△CONTACT: Phosphor bronze with gold plating over nickel
△TOP SEAL: Polyester Film
△POTTING MATERIAL: Epoxy

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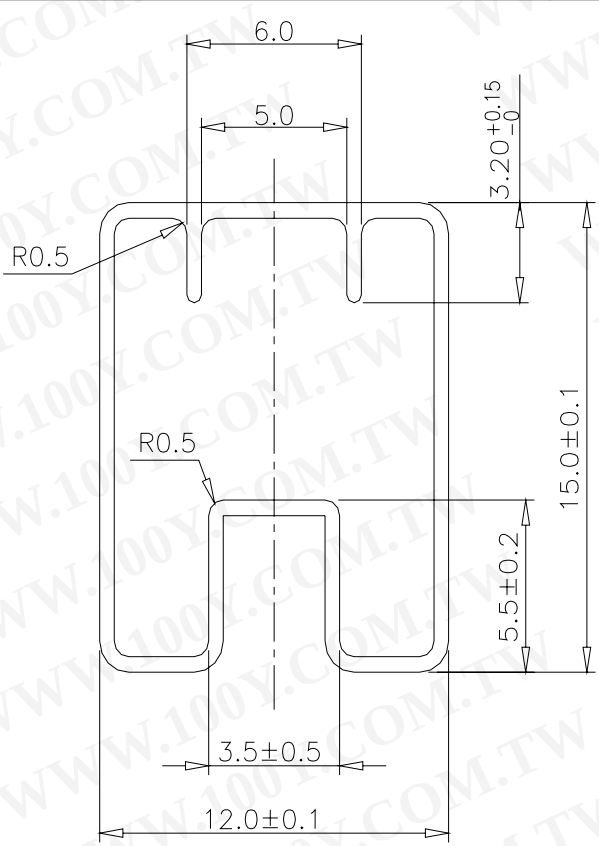
SOLDERING PROCESS

△Keep all switch contacts in their “OFF” position for all operations.
△WAVE SOLDERING: Recommended temperature at 500°F (260℃) max. 5 seconds for through hole type.
△HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 350℃ approximately max 5 seconds.
△Make sure switch is in “OFF” position during soldering process, or it will decrease the operating force and meanwhile increase the contact resistance.
△Do not wash the switch body except top tape sealed type, which suitable for spray cleaning method from top of the s/w.

PACKING

Part Number	Number Per Tube	Part Number	Number Per Tube
DS(R)-01	120	DS(R)-01-T	113
DS(R)-02	72	DS(R)-02-T	72
DS(R)-03	51	DS(R)-03-T	51
DS(R)-04	40	DS(R)-04-T	40
DS(R)-05	32	DS(R)-05-T	32
DS(R)-06	27	DS(R)-06-T	27
DS(R)-07	24	DS(R)-07-T	24
DS(R)-08	21	DS(R)-08-T	21
DS(R)-09	19	DS(R)-09-T	19
DS(R)-10	17	DS(R)-10-T	17
DS(R)-12	14	DS(R)-12-T	14
DP(L)-02	70	DP(L)-02-T	65
DP(L)-03	50	DP(L)-03-T	49
DP(L)-04	39	DP(L)-04-T	39
DP(L)-05	32	DP(L)-05-T	32
DP(L)-06	27	DP(L)-06-T	27
DP(L)-07	24	DP(L)-07-T	24
DP(L)-08	21	DP(L)-08-T	21
DP(L)-09	19	DP(L)-09-T	19
DP(L)-10	17	DP(L)-10-T	17
DP(L)-12	14	DP(L)-12-T	14
DA-02	73	DA-02-T	70
DA-03	52	DA-03-T	50
DA-04	40	DA-04-T	39
DA-05	33	DA-05-T	32
DA-06	28	DA-06-T	28
DA-07	24	DA-07-T	24
DA-08	21	DA-08-T	21
DA-09	19	DA-09-T	19
DA-10	17	DA-10-T	17
DA-12	14	DA-12-T	14

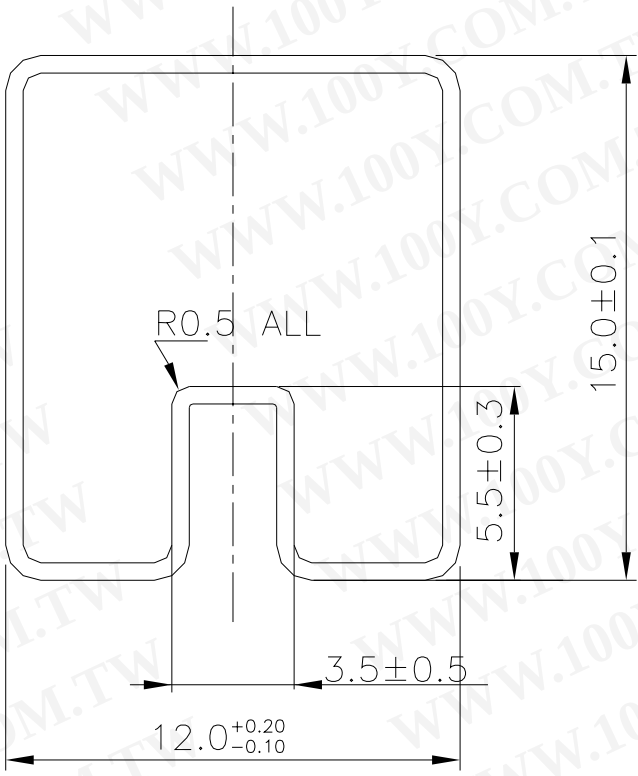
DSR



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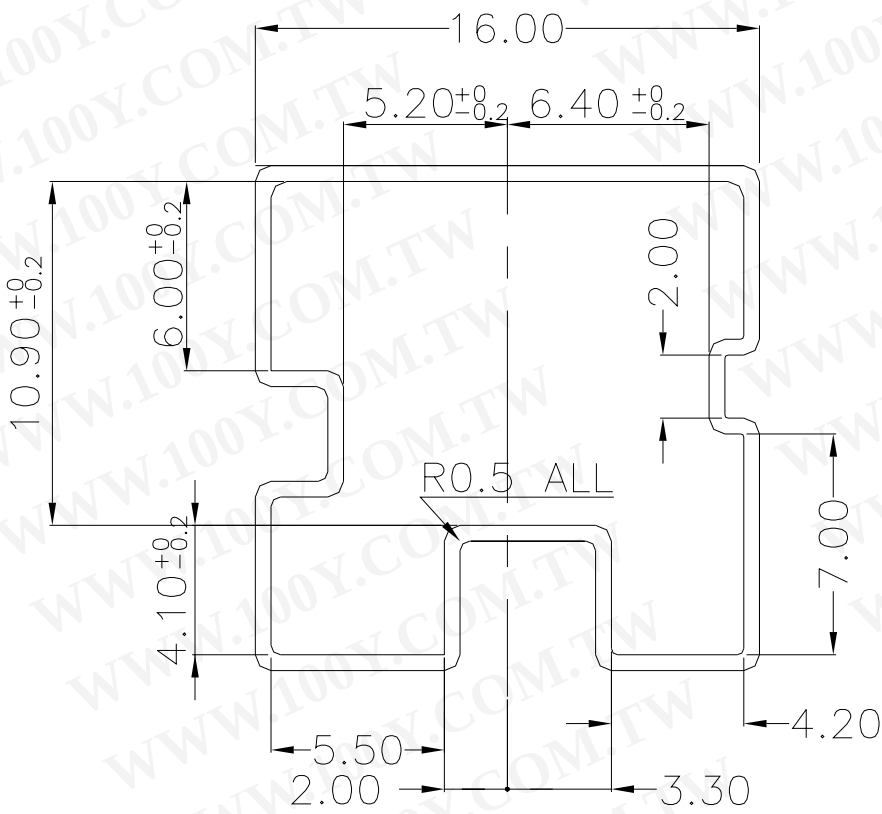
General Tolerance : $\pm 0.2\text{mm}$

DS



General Tolerance : $\pm 0.2\text{mm}$

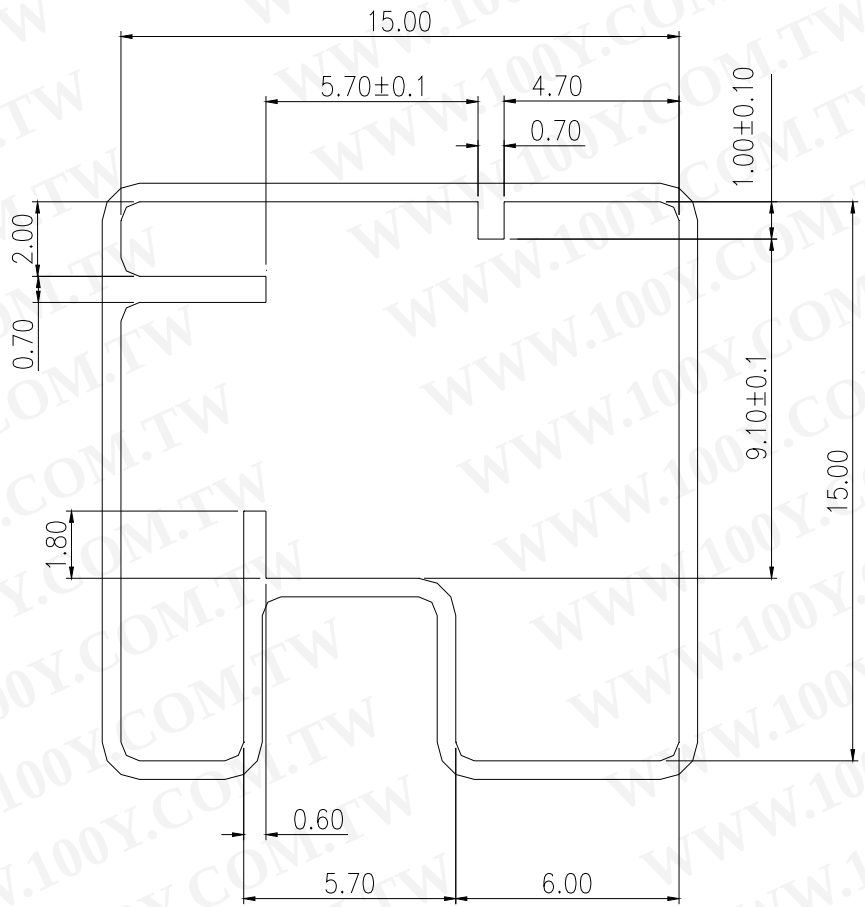
DP(L)



General Tolerance : $\pm 0.2\text{mm}$

DA

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General Tolerance : ±0.2mm