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LW097 Series

Electrical Characteristics

Total Resistance:	500Ω-5MΩ	Rotational Life:	10,000 cycles min
Residual Resistance:	<20Ω	Slider Noise:	Less than 100MV
Total Resistance Tolerance:	A B C D W	Gang Error:	≤±4dB (-40~0dB)
Voltage Proofl Minute at:	300V AC	Insulation Resistance:	100MΩ min. at 250V DC
Power Ratting:	B taper 0.05w Other taper 0.025w	Maximum Operating Voltage:	B taper 50V AC; Other taper 25V AC

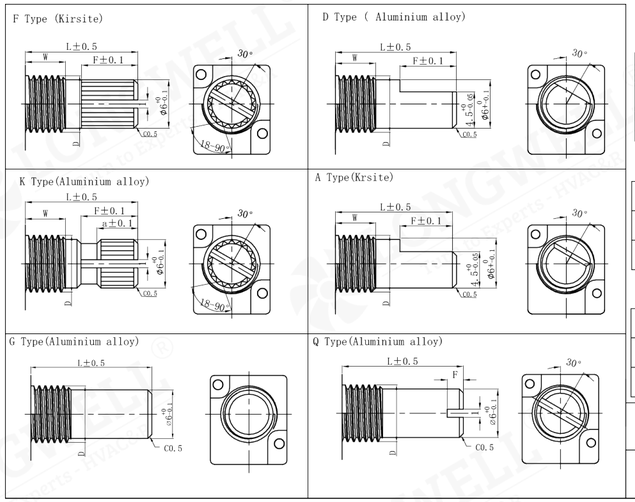
Mecanical Structure

Total Rotational Angle:	300°±10°	Rotational Stopper Strength:	3Kgf.cm MAX
Rotational Torque:	10~200gf.cm	Push-pull Strength:	6kgf MAX

Switch characteristics

Switch Contact Resistance:	50mΩMax	Switch Rotational Angle:	50°±10°
Switch Rated Power:	12V DC 0.5A	Switch Action:	500gf.cm below
Switch Life:	15,000 cycles	Switch Action:	500±200gf

Shaft Type and Lengths Metal shaft



W=5

L	10	12	15	20	25
F	4	5	8	12	15
a	3	4	7	11	13

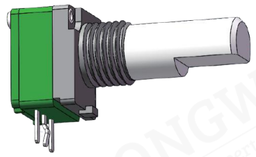
W=7

L	12	15	20	25	
F	4	7	12	15	
a	3	6	10	13	

W=10

L	15	20	25	30	
F	4	7	12	15	
a	3	6	10	13	

W	1	2.5	5	7	10	15
D	φ7	M7*0.75P			M9*0.75P	



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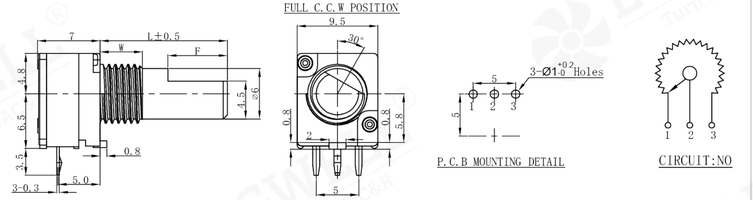

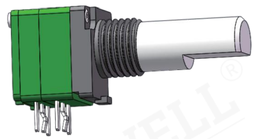

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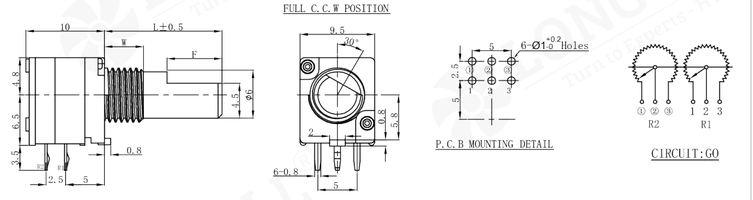

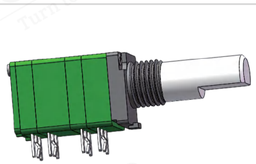

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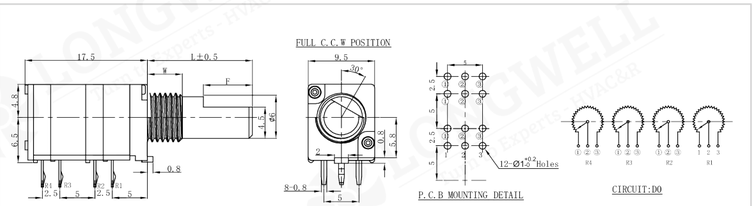

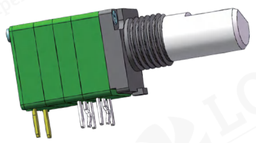

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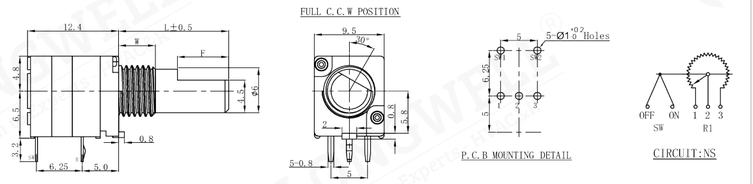

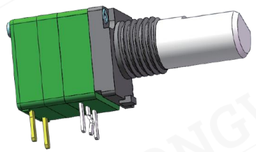

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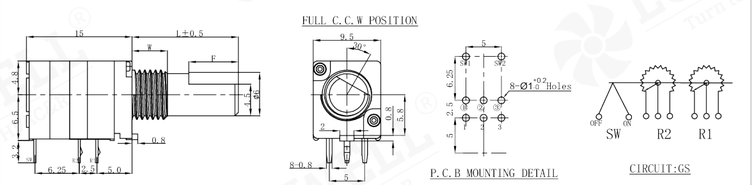

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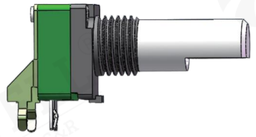

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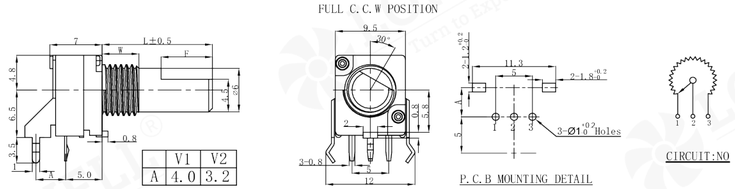

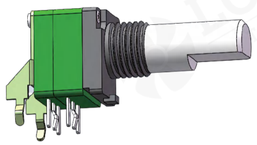

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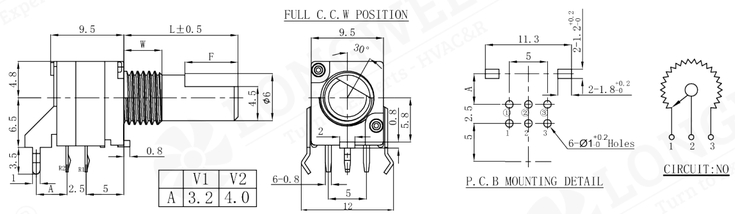

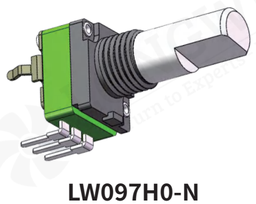

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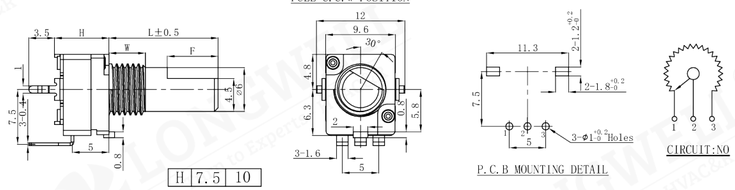

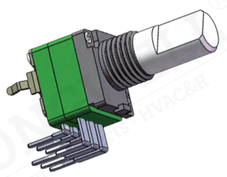

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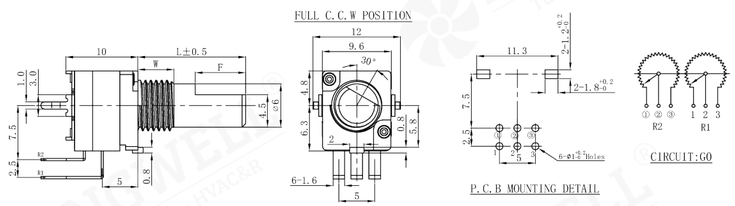

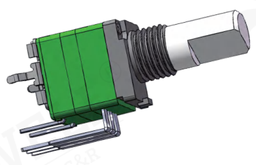

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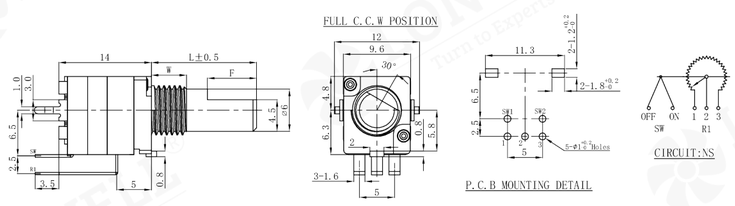

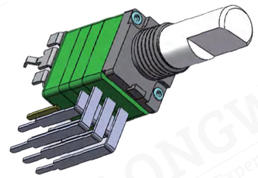

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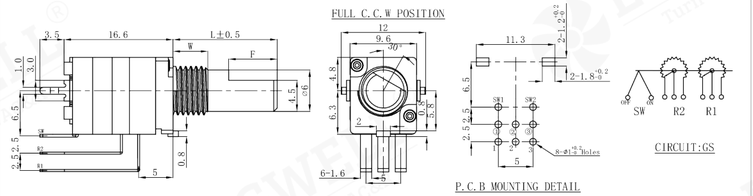

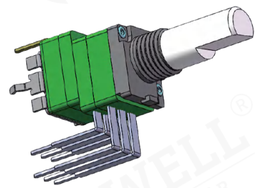

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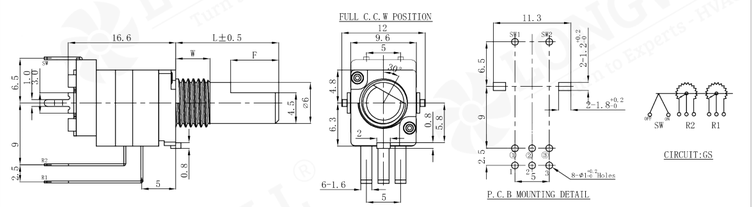

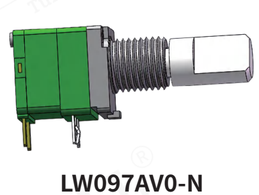

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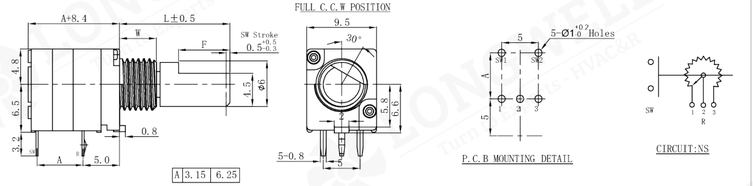

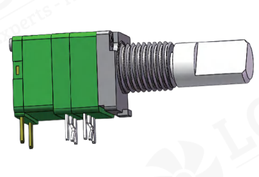

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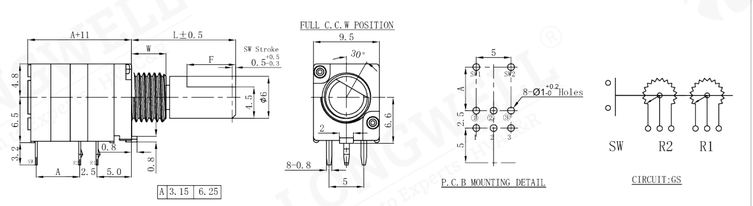

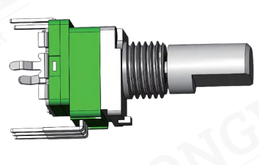

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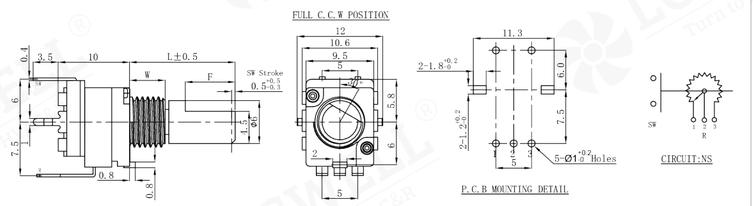

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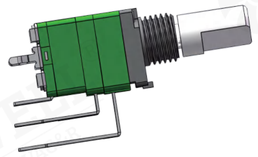

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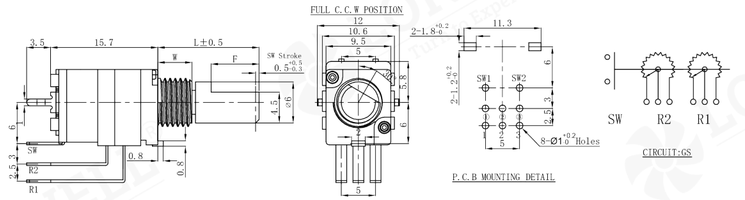

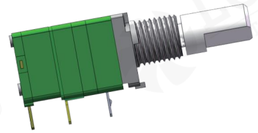

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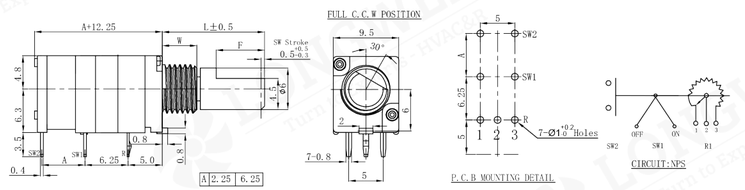

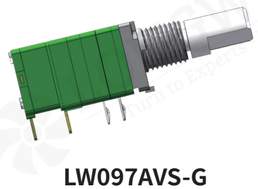

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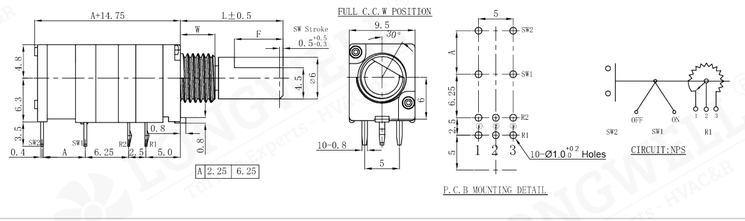


LW0972 Series

Electrical Characteristics

Total Resistance:	500Ω-5MΩ	Rotational Life:	10,000 cycles min
Residual Resistance:	<20Ω	Slider Noise:	Less than 100MV
Total Resistance Tolerance:	A B C D W	Insulation Resistance:	100MΩ min. at 250V DC
Power Ratting:	B taper 0.05w Other taper 0.025w	Maximum Operating Voltage:	B taper 50V AC; Other taper 25V AC
Voltage Proofl Minute at:	300V AC		

Mecanical Structure

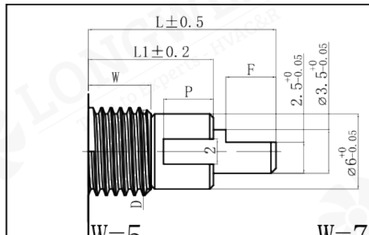
Total Rotational Angle:	300°±10°	Rotational Stopper Strength:	3Kgf.cm MAX
Rotational Torque:	10~200gf.cm	Push-pull Strength:	6kgf MAX

Switch characteristics

Switch Contact Resistance:	50mΩMax	Switch Rotational Angle:	50°±10°
Switch Rated Power:	12V DC 0.5A	Switch Action:	500gf.cm below
Switch Life:	15,000 cycles	Switch Action:	500±200gf

Shaft Type and Lengths Metal shaft

D	M7*0.75P	M9*0.75P



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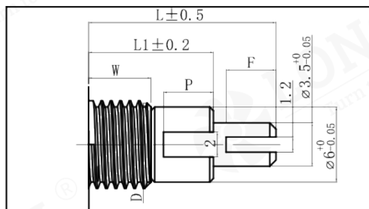
L	15	20	25
L1	10	10	10
P	4	4	4
F	4	6	7

W=7

L	15	20	25
L1	10	10	10
P	2	3	4
F	3	5	7

W=10

L	20	25	30
L1	10	10	10
P	4	4	4
F	4	6	10



D	M7*0.75P	M9*0.75P

W=5

L	15	20	25
L1	10	10	10
P	4	4	4
F	4	6	7

W=7

L	15	20	25
L1	10	10	10
P	2	3	4
F	3	5	7

W=10

L	20	25	30
L1	10	10	10
P	4	4	4
F	4	6	10

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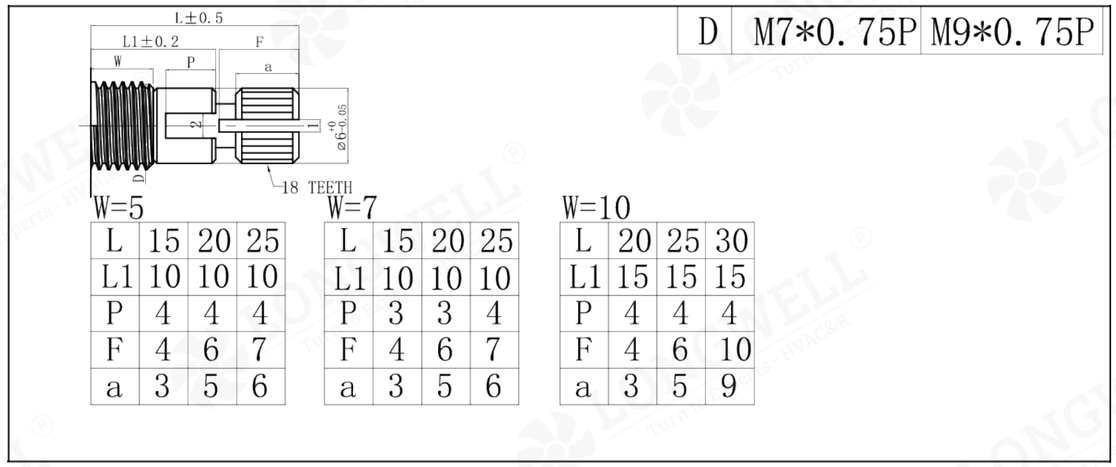


D	M7*0.75P	M9*0.75P

W=5

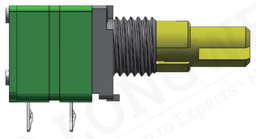
L	15	20	25
L1	10	10	10
P	4	4	4
F	4	6	7
a	3	5	6

W=7

L	15	20	25
L1	10	10	10
P	3	3	4
F	4	6	7
a	3	5	6

W=10

L	20	25	30
L1	15	15	15
P	4	4	4
F	4	6	10
a	3	5	9



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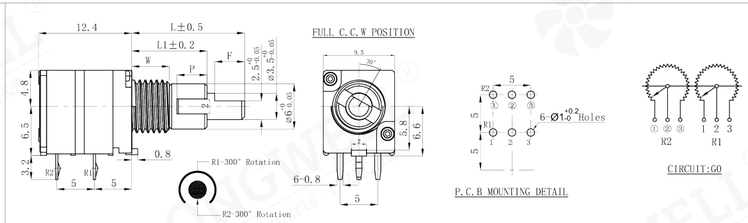

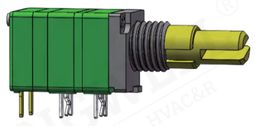

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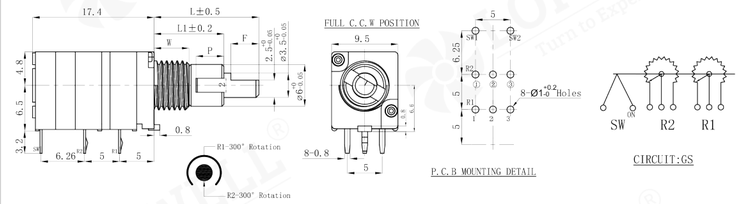

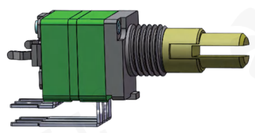

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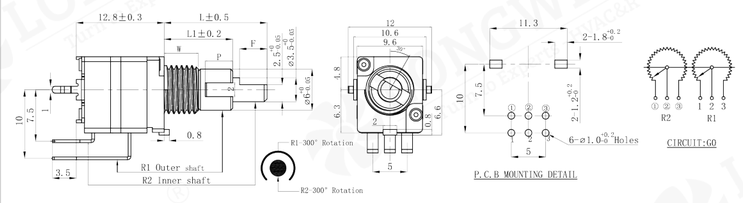


LW092 Series

Electrical Characteristics

- Total Resistance: 500Ω-5MΩ
- Residual Resistance: <20Ω
- Total Resistance Tolerance: A B C D W
- Voltage Proofl Minute at: 300V AC
- Power Ratting: B taper 0.05w Other taper 0.025w
- Rotational Life: 10,000 cycles min
- Slider Noise: Less than 100MV
- Gang Error: ≤±3dB (-40~0dB)
- Insulation Resistance: 100MΩ Min. at 250V DC
- Maximum Operating Voltage: B taper 50V AC; Other taper 25V AC

Mecanical Structure

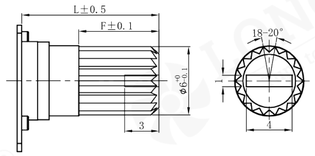
- Total Rotational Angle: 300°±10°
- Rotational Torque: 10~200gf.cm
- Rotational Stopper Strength: 3Kgf.cm MAX
- Push-pull Strength: 6kgf MAX

Switch characteristics

- Switch Contact Resistance: 50mΩMax
- Switch Rated Power: 12V DC 0.5A
- Switch Life: 10,000 cycles
- Switch Rotational Angle: 50°±10°
- Switch Action: 500gf.cm below

Shaft Type and Lengths Metal shaft

Y Type



L	10	15	20
F	7	7	12

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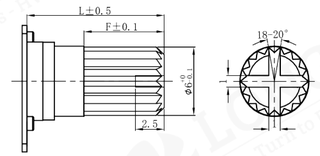

L	10	15	20
F	7	7	12

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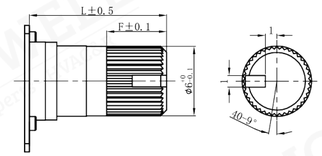

L	10	15	20
F	7	7	12

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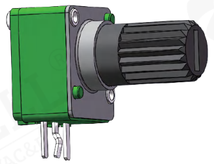

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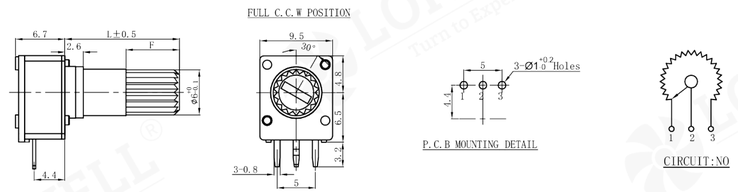

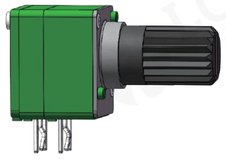

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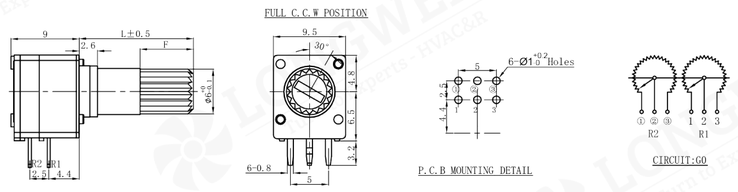

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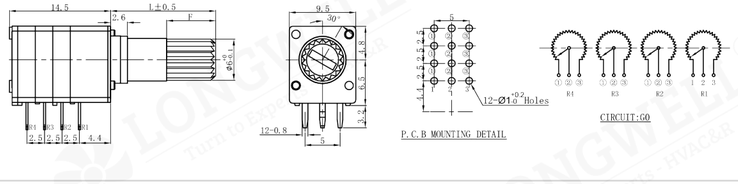

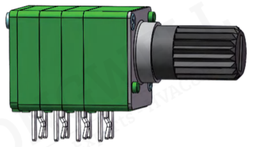

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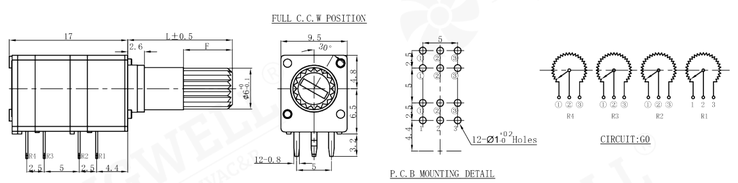

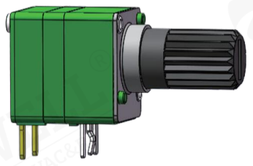

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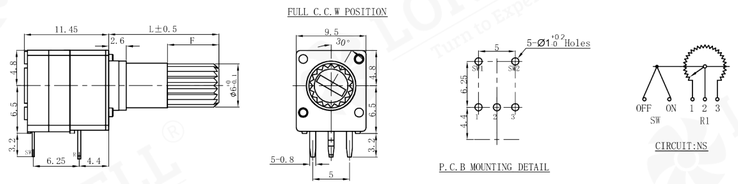

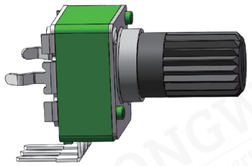

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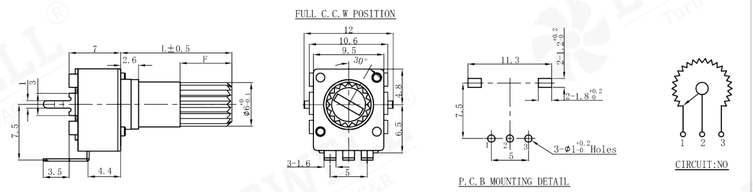

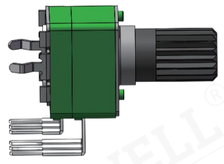

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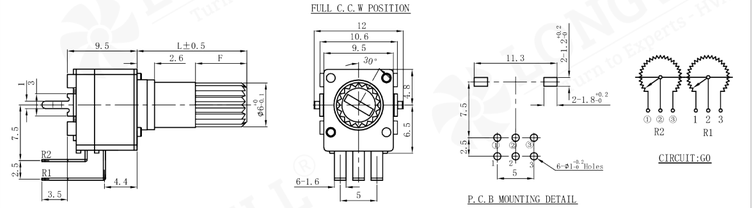

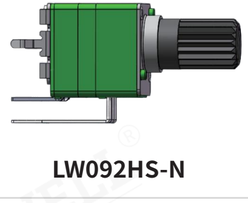

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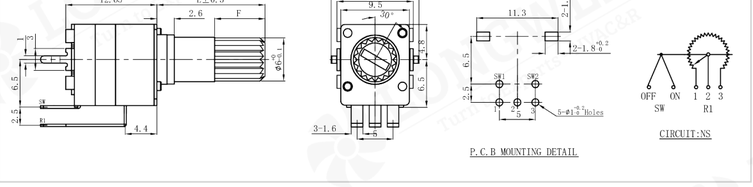

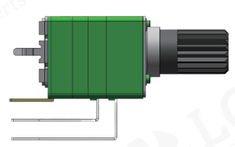

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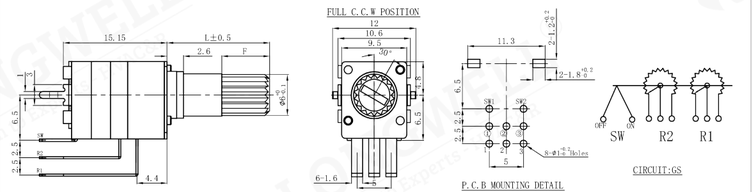

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LW12 Series

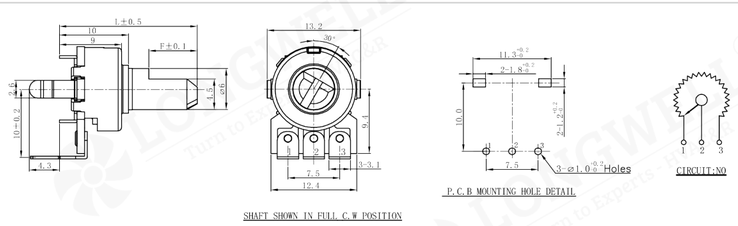
Electrical Characteristics

Total Resistance:	500Ω-5MΩ	Slider Noise:	Less than 100MV
Residual Resistance:	<20Ω	Gang Error:	≤±4dB (-40~0dB)
Total Resistance Tolerance:	A B C D W	Insulation Resistance:	100MΩ min. at 250V DC
Power Ratting:	B taper 0.05w Other taper 0.025w	Maximum Operating Voltage:	B taper 50V AC; Other taper 25V AC
Voltage Proofl Minute at:	300V AC		

Mecanical Structure Itemsspecification

Total Rotational Angle:	300°±10°	Rotational Stopper Strength:	3Kgf.cm MAX
Rotational Torque:	10~200gf.cm	Push-pull Strength:	6kgf MAX
Rotational Life:	10,000 cycles min		

LW1212-NH



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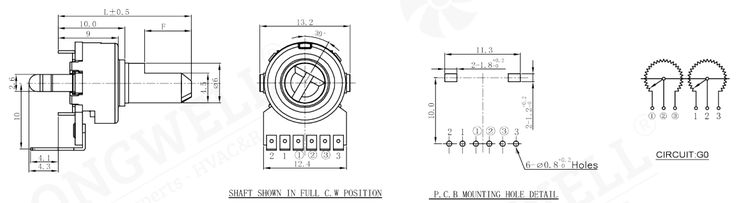

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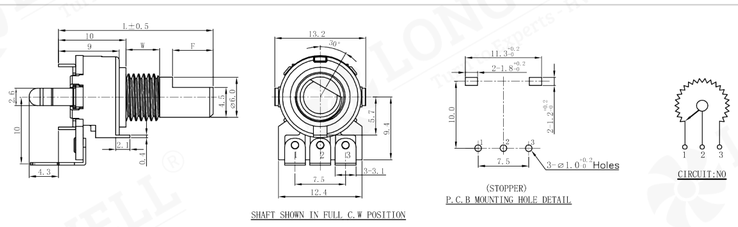
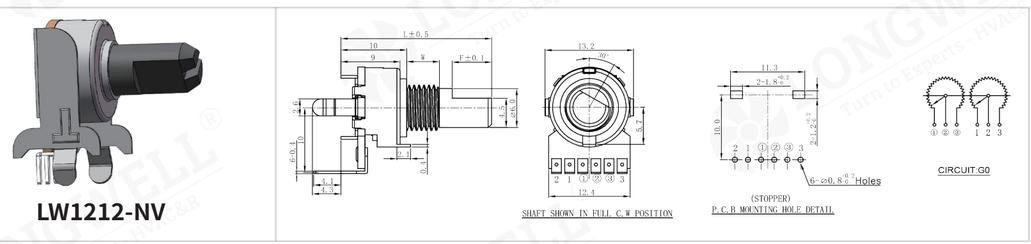


LW1213-GH

LW1213-GV

LW1212-NV



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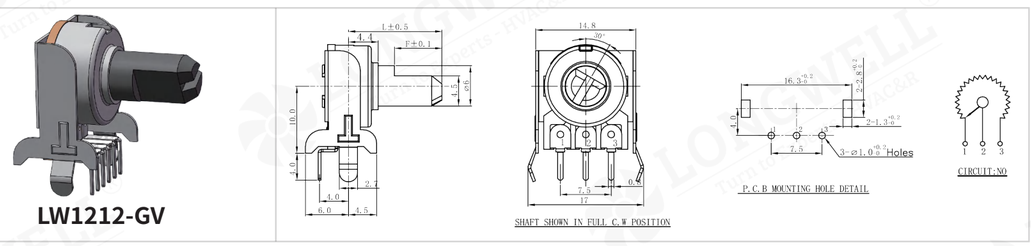

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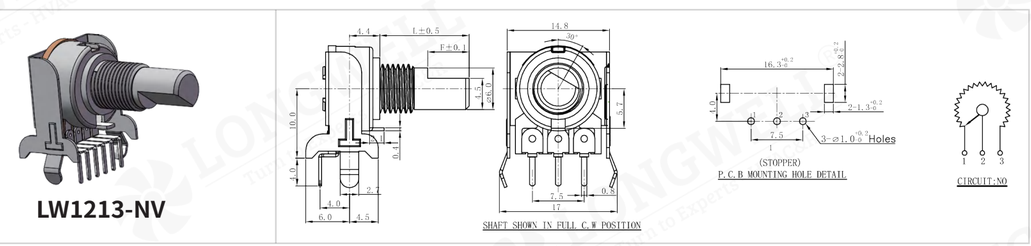

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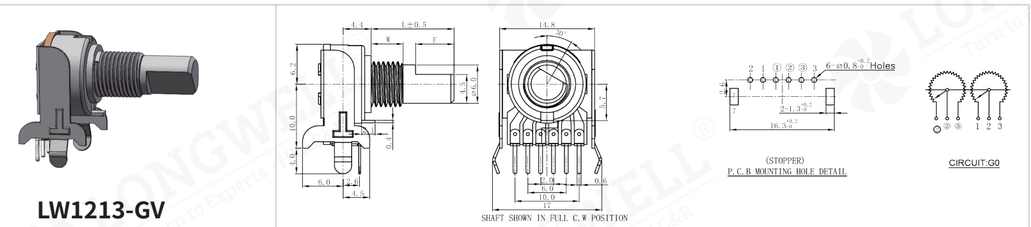


LW10 Series

Electrical Characteristics

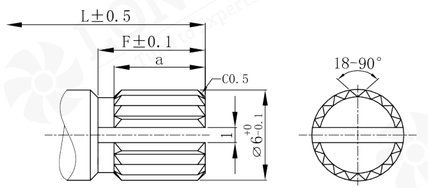
- Power Ratting: 0.1A 12V DC
- Lnitial Contact Resistance: 50Ω
- Withstand Voltage: AC500V forlminute
- Insulation Resistance: 100MΩ min. At 500V DC
- Temperature Range: -30℃~85℃

Mecanical Structure

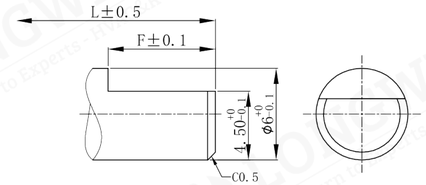
- Changeover Angle: 30°
- Push-pull Strength: 5Kgf MAX
- Rotational Torque: 100~500gf.cm
- Rotational Life: 10,000 cycles min
- Rotational Stopper Strength: 5Kgf.cm Max

Type of Shaft

K-Type



D-Type



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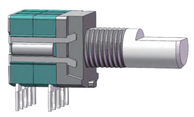
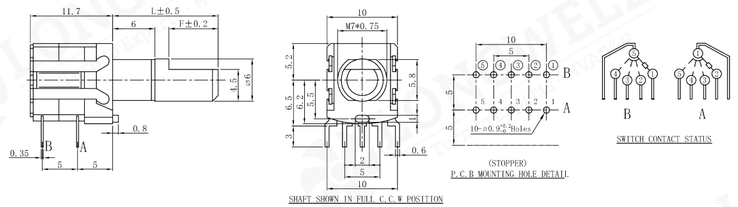
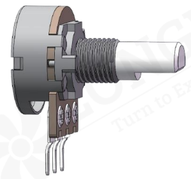
F	7	12	12	12	12
a	6	11	11	11	12



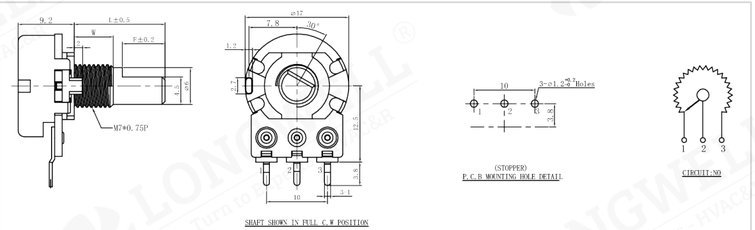
LW10

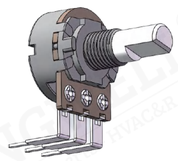


LW166 Series



LW166-NV1





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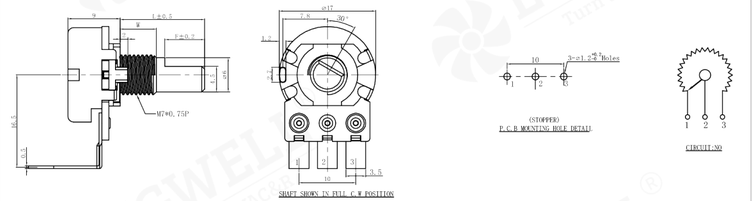

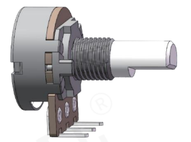

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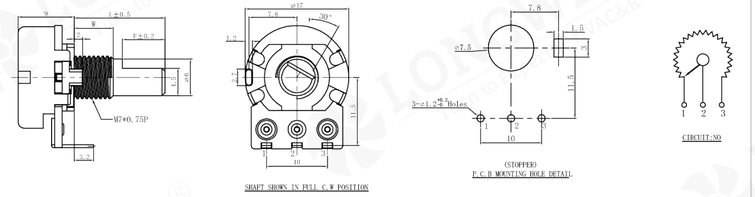

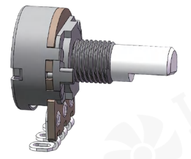

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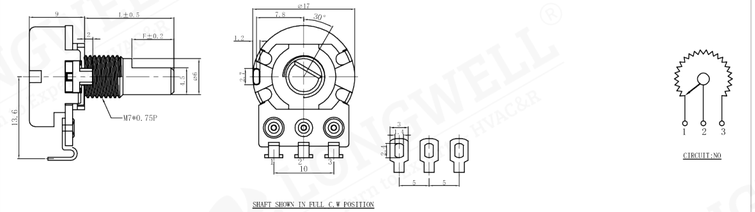

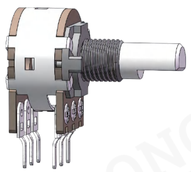

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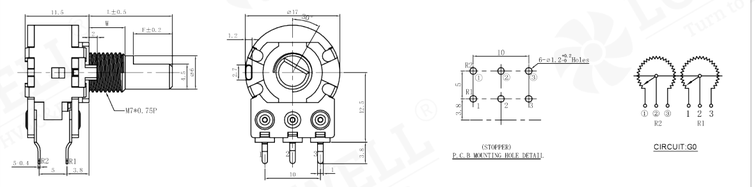

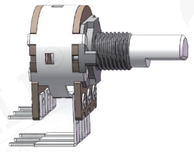

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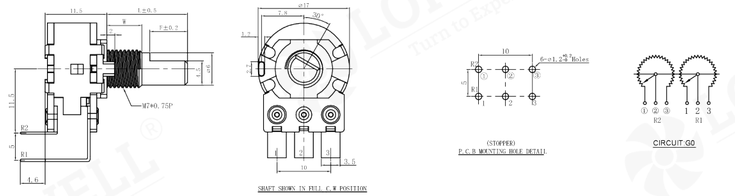

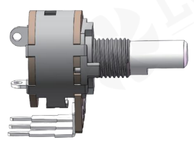

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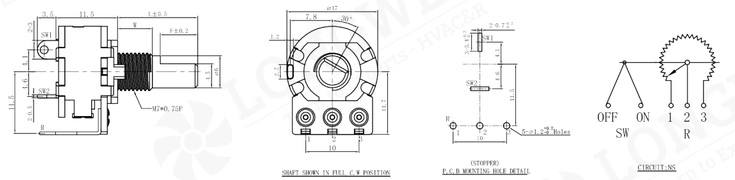

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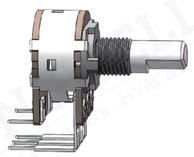

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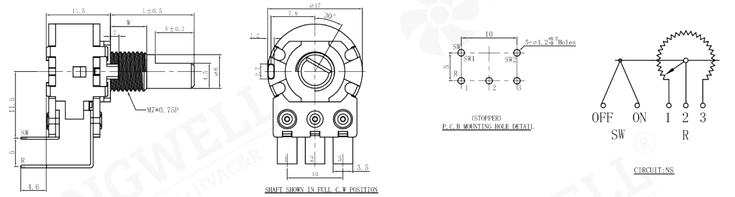

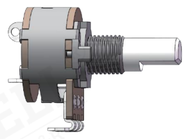

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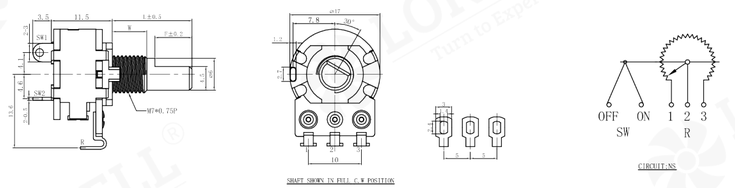
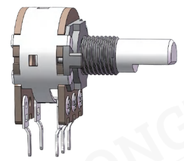
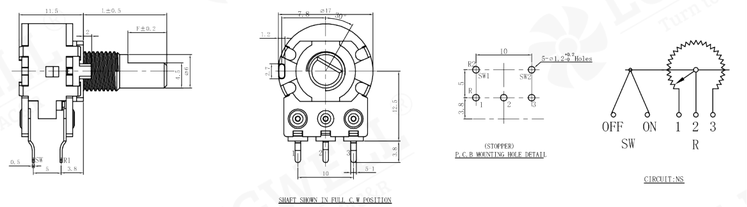
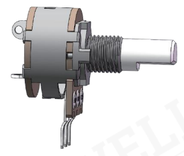


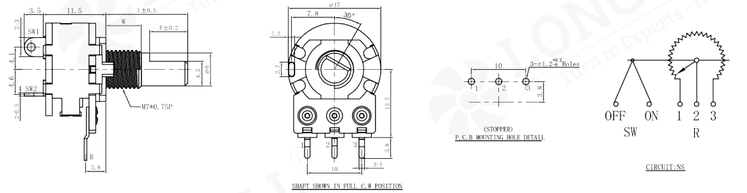


LW166-NS5





LW166-NS6



LW11 Series

Electrical Characteristics

- Power Ratting: 0.5mA 5V DC
- Temperature Range: -30℃~80℃
- Lnitial Contact Resistance: 50mΩ
- Insulation Resistance: 100MΩ min. At 250V DC
- Withstand Voltage: AC300V forlminute

Mecanical Structure

- Total Rotational Angle: 90℃(Endless)
- Shaft Wobble: 0.5mm
- Rotational Torque: 30~200gf.cm
- Rotational Life: 30,000 cycles min
- Push-pull Strength: 5Kgf Max
- Rotation Play At The Click Position.5° Max

Switch characteristics

- Contact Resistance: 100MΩ
- Insulatnd Resistance: 100MΩ min. At 250V DC
- Switch Rating: DC 16V 0.5A
- Withstand Voltage: 300V AC, 1mA for 1min
- Operating Force: 300~600gf
- Switch Life: 20,000 cycles min

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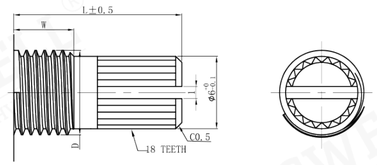
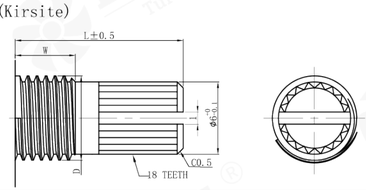
https://www.longwellfans.com Email:sales@zjlongwell.com

Shaft Type and Lengths

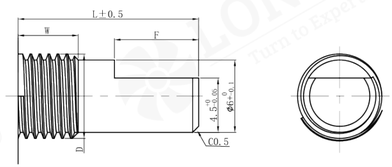
F Type (Kirsite)



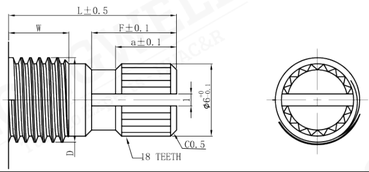
F Type (Kirsite)



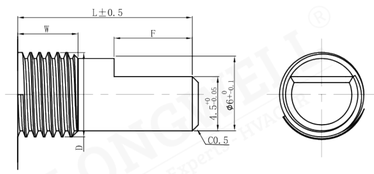
D Type (Aluminium alloy)



K Type(Aluminium alloy)



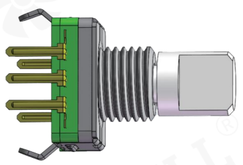
A Type(Krsite)



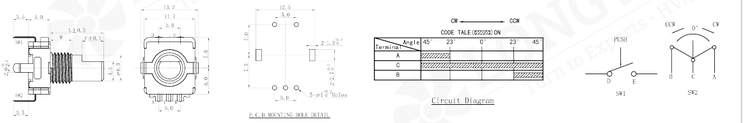
W=5					
L	10	12	15	20	25
F	4	5	8	12	15
a	3	4	7	11	13

W=7				
L	12	15	20	25
F	4	7	12	15
a	3	6	10	13

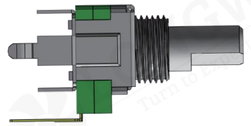
W	1	2.5	5	7	10	15
D	φ7	M7*0.75P		M9*0.75P		



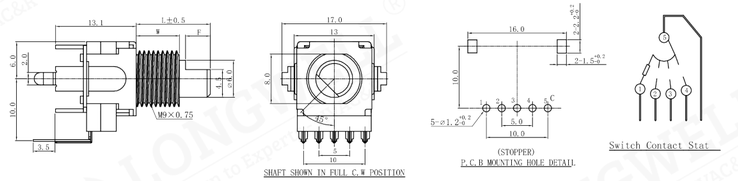
LW11

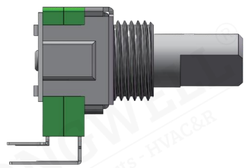


LW12(5Pin) Series

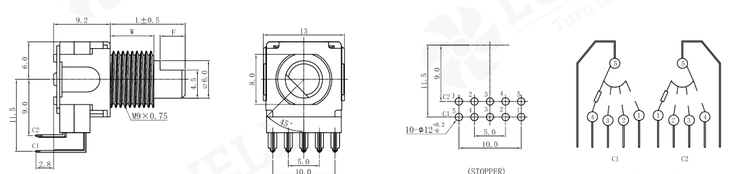


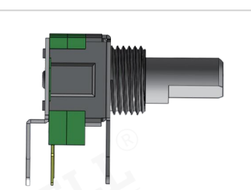
LW12-H1



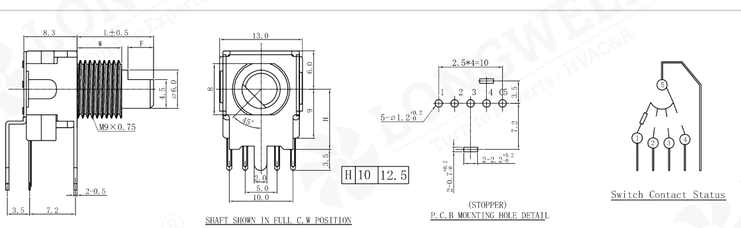


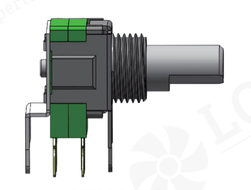
LW12-H2



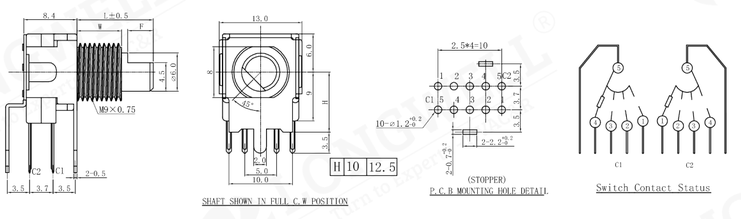


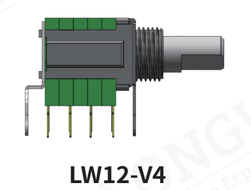
LW12-V1



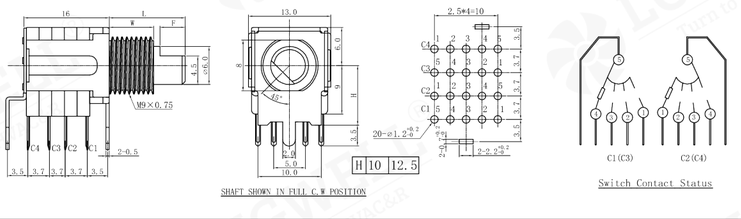


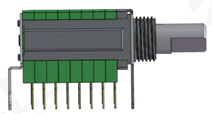
LW12-V2



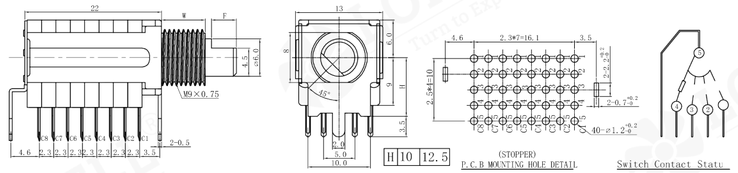


LW12-V4

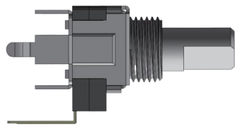




LW12-V8



LW12(7Pin) Series



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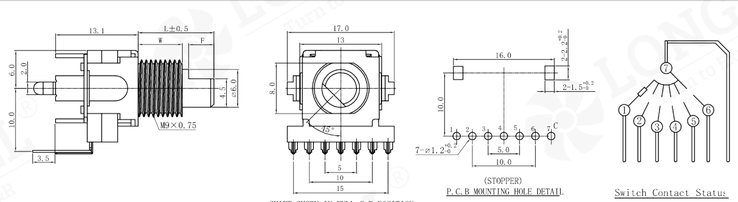

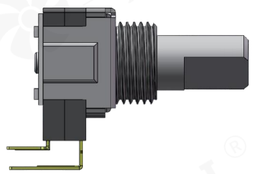

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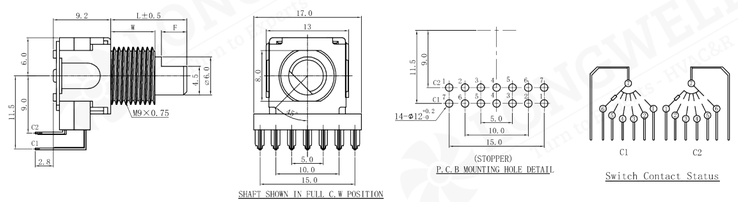

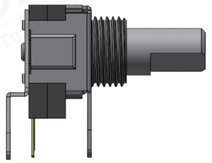

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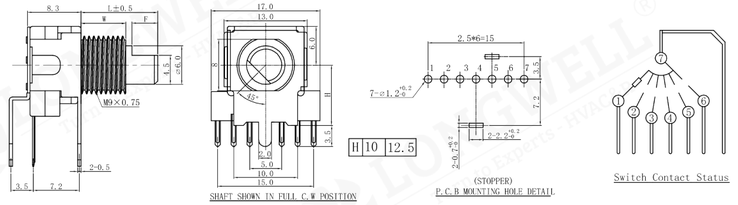

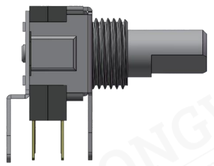

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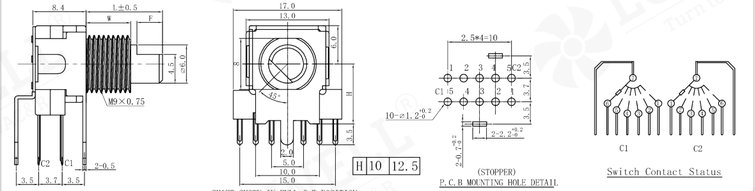
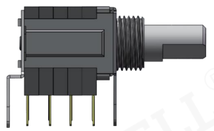
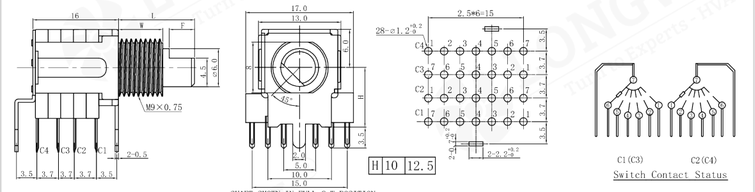
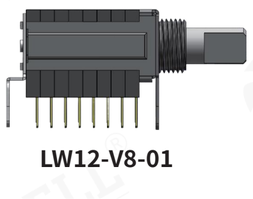


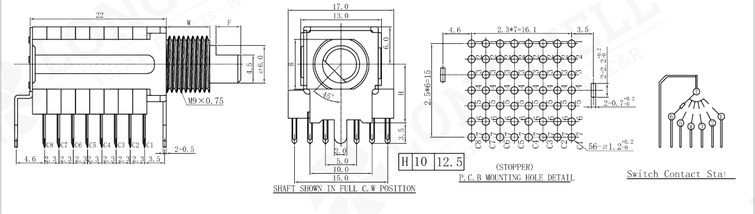


LW12-V4-01





LW12-V8-01



LW16 Series

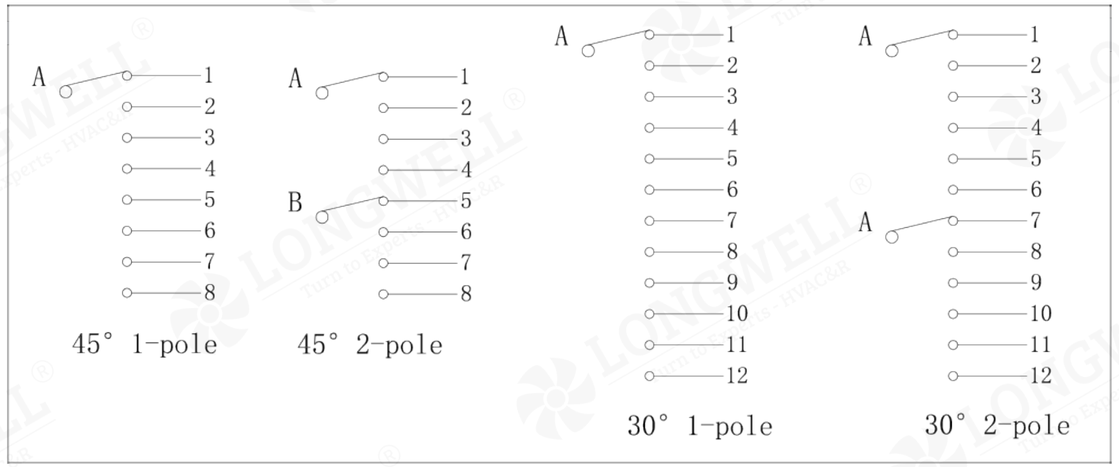
Electrical Characteristics

- Power Ratting: 0.3A 16V DC
- Temperature Range: -30℃~85℃
- Lnitial Contact Resistance: 50mΩ
- Insulation Resistance: 100MΩ min. At 500V DC
- Withstand Voltage: AC500V forlminute

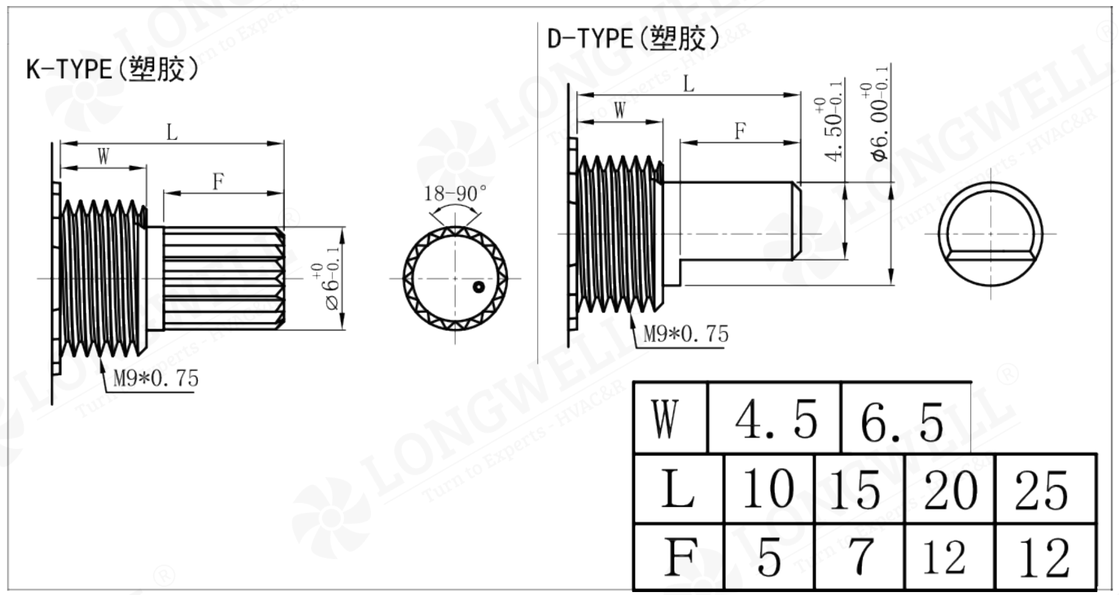
Mecanical Structure Itemsspecification

- Changeover Andle: 30℃~45℃
- Push-pull Strength: 5Kgf MAX
- Rotational Torque: 100~600gf.cm
- Rotational Life: 10,000 cycles min
- Rotational Stopper Strength: 5Kgf.cm Max

Switch Contact Status

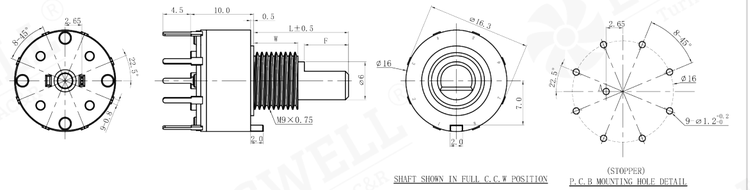


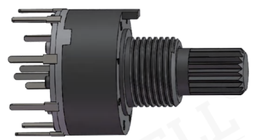
Type of Shaft



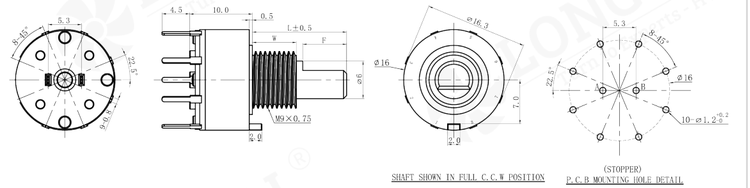
W	4.5	6.5		
L	10	15	20	25
F	5	7	12	12

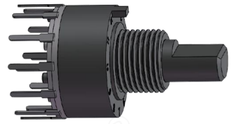
LW16-NB





LW16-GB





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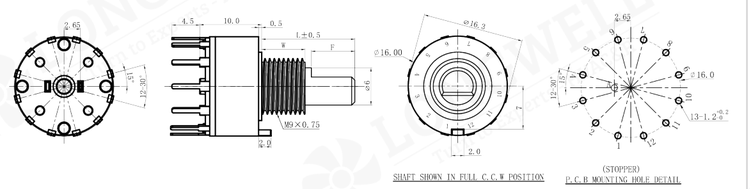

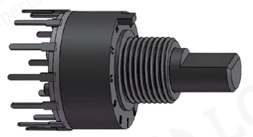
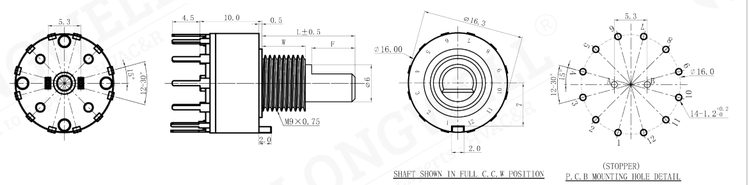
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