Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com

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

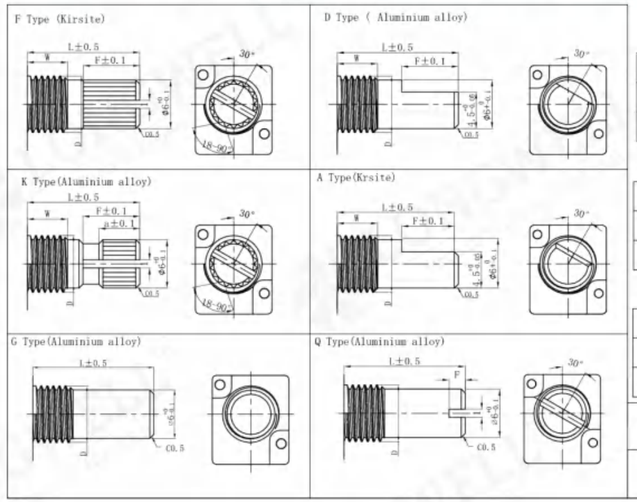
Mecanical Structure

• 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

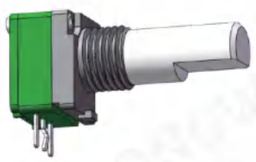
W=7

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

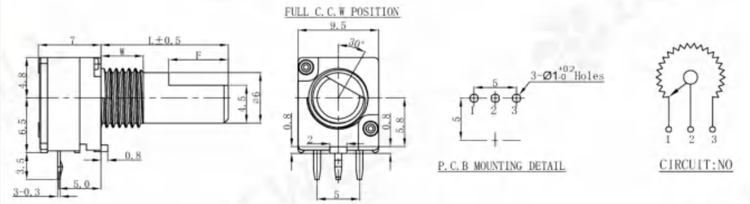
W=10

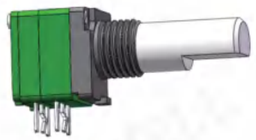
L	15	20	25	30	
F	4	7	12	15	
a	3	6	10	13	

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

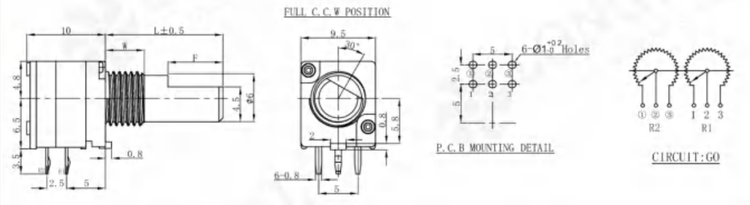


LW097V0-N

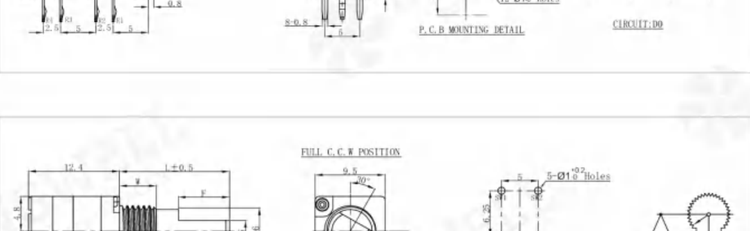


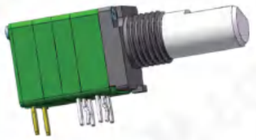


LW097V0-G

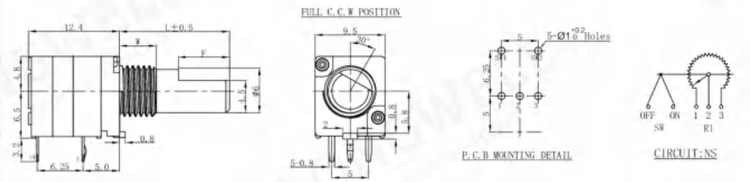


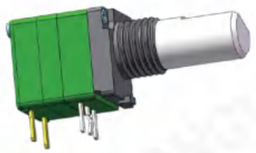
LW097V0-D



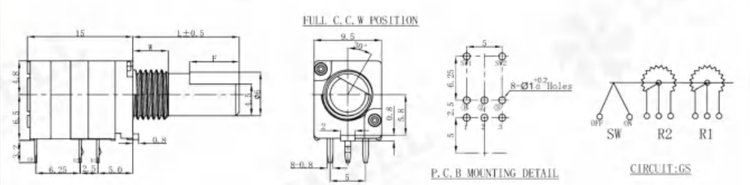


LW097VS-N

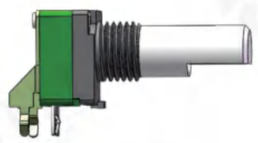




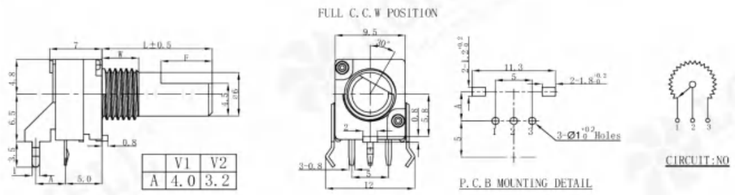
LW097VS-G



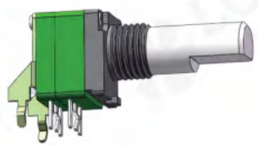
Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com



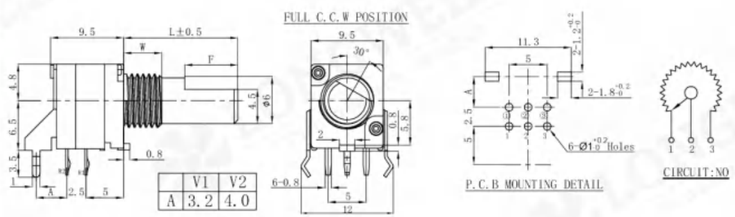
LW097V0-NX



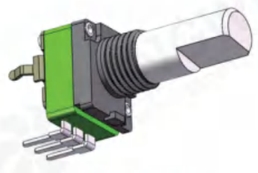
	V1	V2
A	4.0	3.2



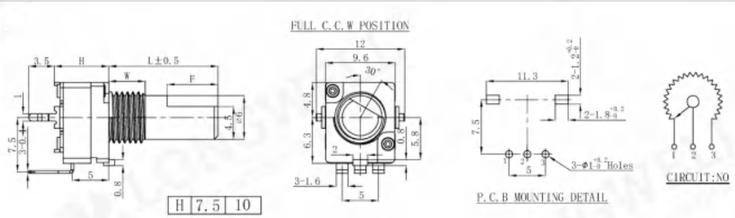
LW097V0-GX



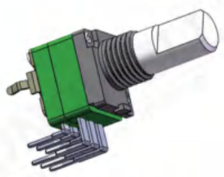
	V1	V2
A	3.2	4.0



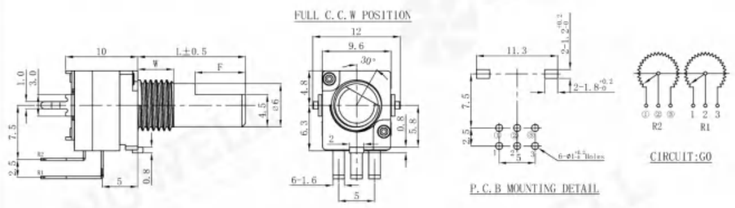
LW097H0-N

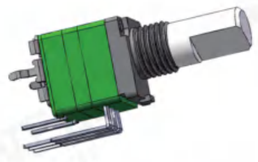


	H
H	7.5 10

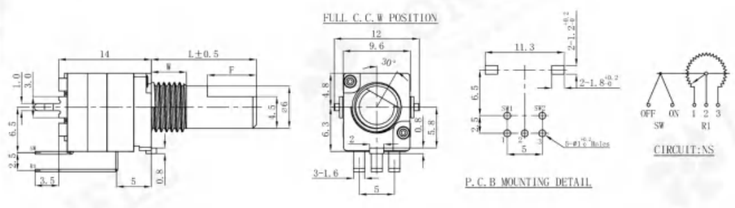


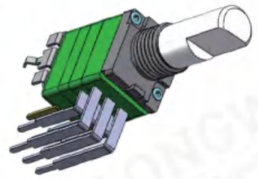
LW097H0-G



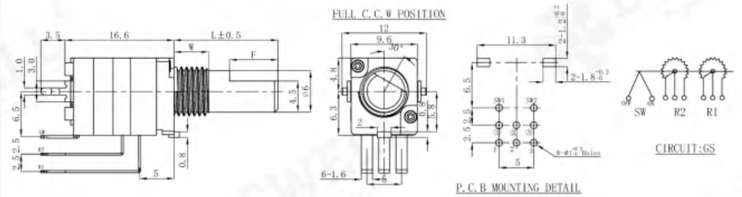


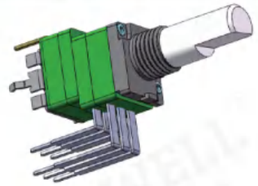
LW097HS-N



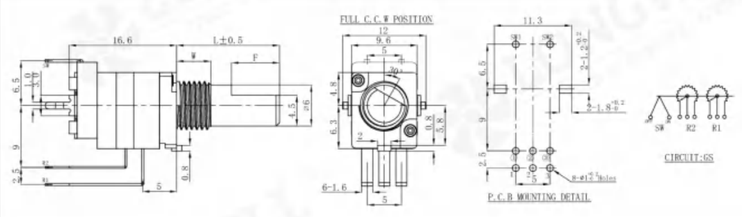


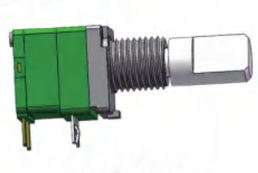
LW097HS-G



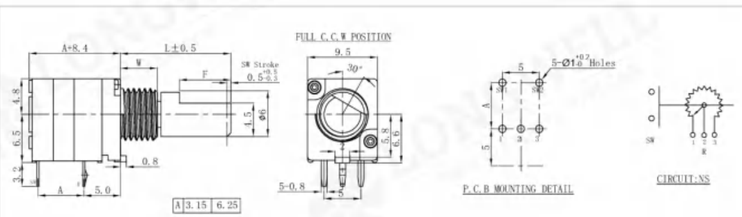


LW097HF-G

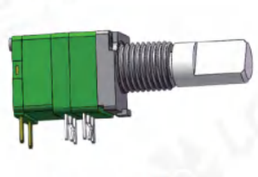




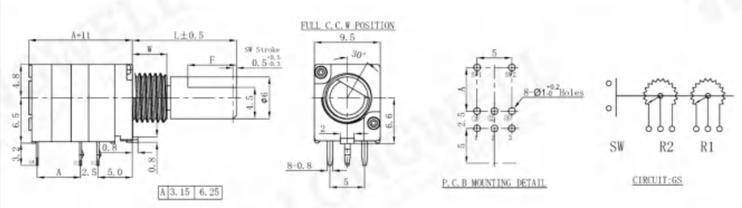
LW097AV0-N



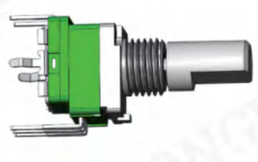
	A
A	3.15 6.25



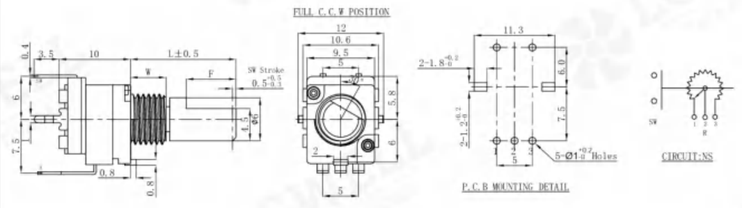
LW097AV0-G



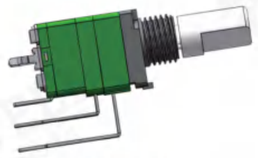
	A
A	3.15 6.25



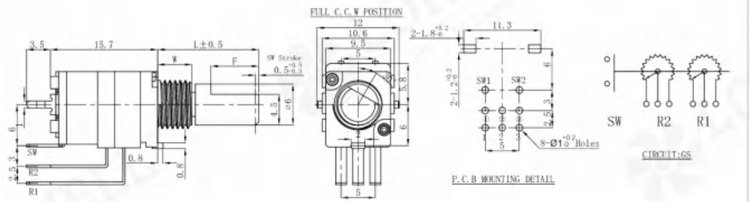
LW097AH0-N

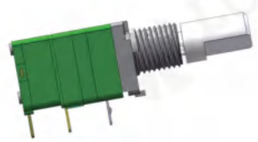


Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com

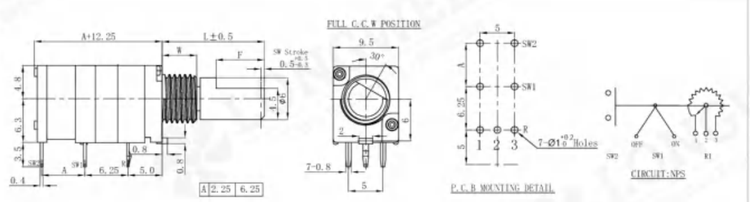


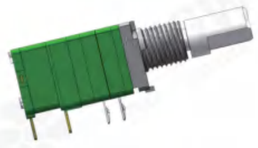
LW097AH0-G



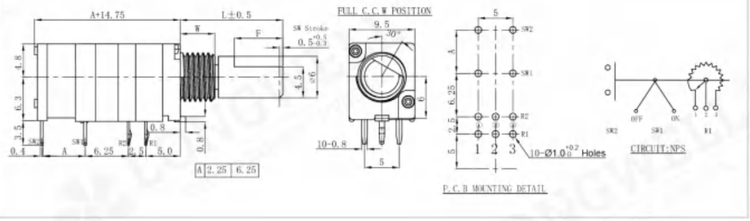


LW097AVS-N





LW097AVS-G



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

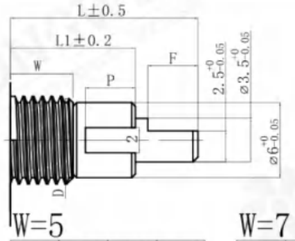
• Total Rotational Angle:	300°±10°	• Rotational Stopper Strength:	3Kgf.cm MAX
• Rotational Torque:	10~200gf.cm	• Push-pull Strength:	6kgf MAX

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



W=5

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

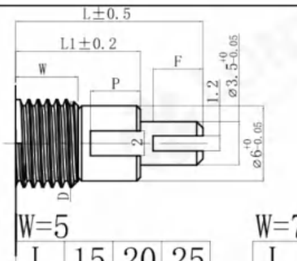
W=7

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

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

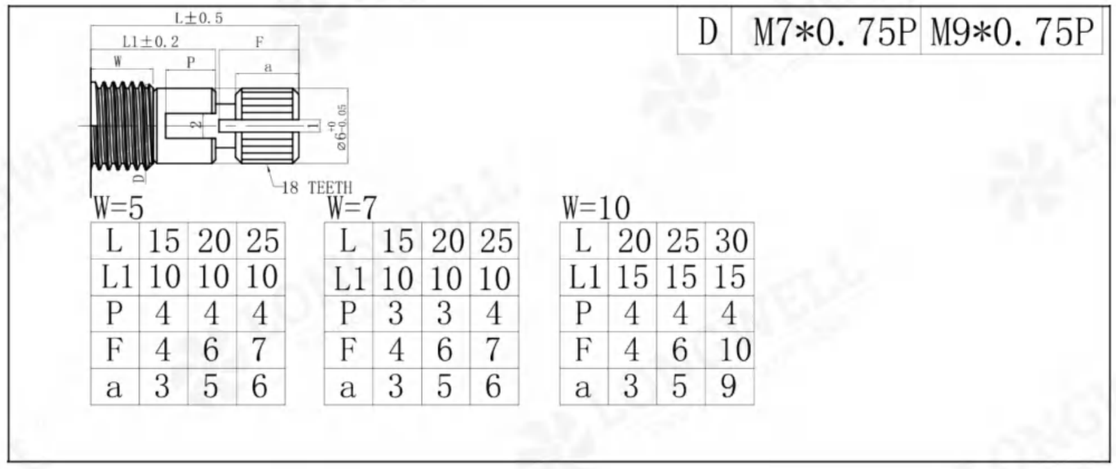
W=7

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

Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com



D	M7*0.75P	M9*0.75P

W=5

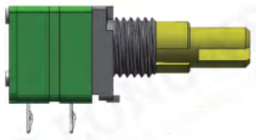
L	15	20	25
L1	10	10	10
P	4	4	4
F	4	6	7
a	3	5	6

W=7

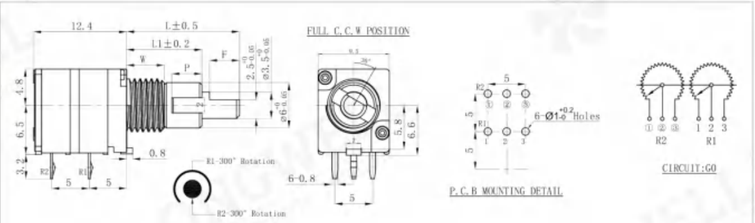
L	15	20	25
L1	10	10	10
P	3	3	4
F	4	6	7
a	3	5	6

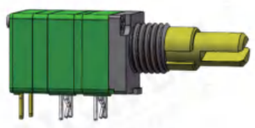
W=10

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

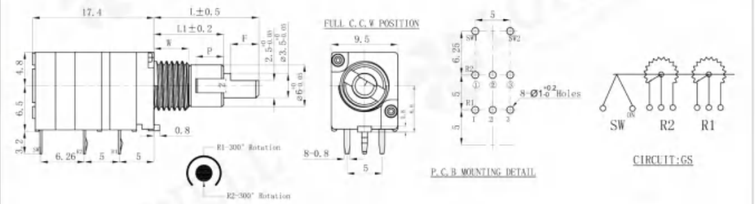


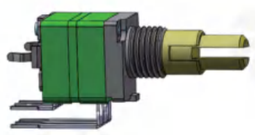
LW0972V0-G



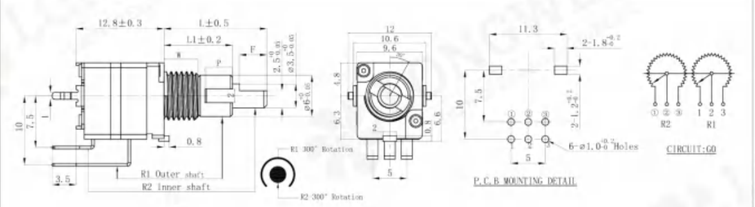


LW0972VS-G





LW0972H0-G



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

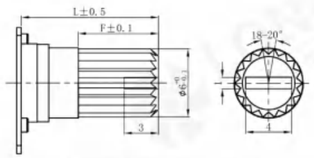
- Total Rotational Angle: 300°±10°
- Rotational Torque: 10~200gf.cm
- Rotational Stopper Strength: 3Kgf.cm MAX
- Push-pull Strength: 6kgf MAX

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

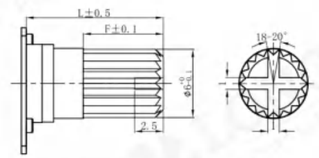
Shaft Type and Lengths Metal shaft

Y Type



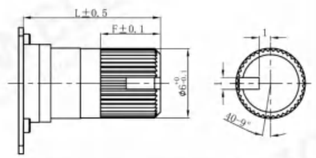
L	10	15	20
F	7	7	12

X Type

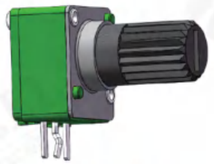


L	10	15	20
F	7	7	12

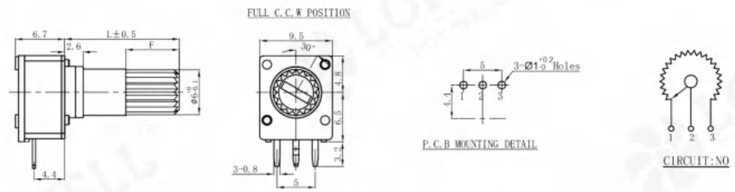
T Type

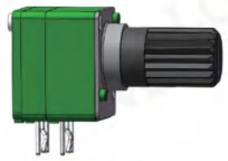


L	10	15	20
F	7	7	12

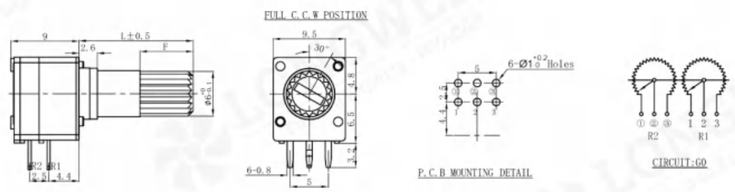


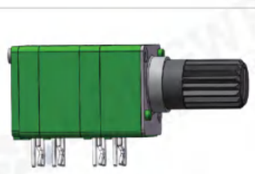
LW092V0-N



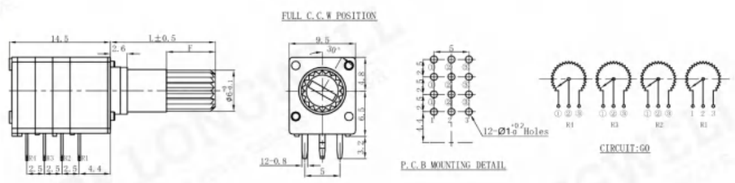


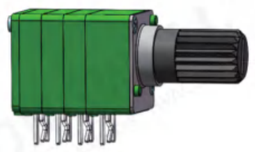
LW092V0-G



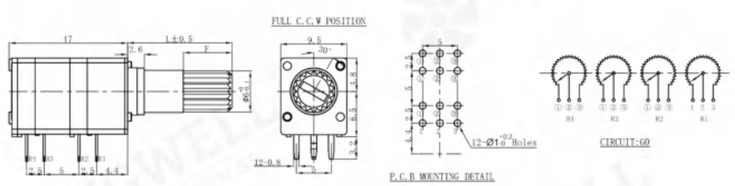


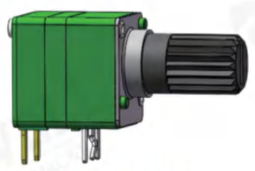
LW092V0-F



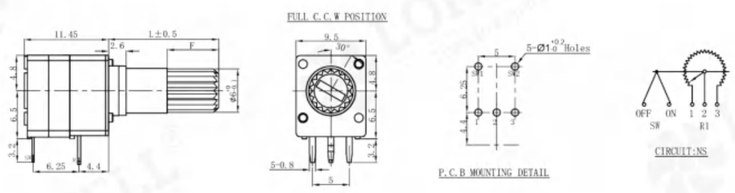


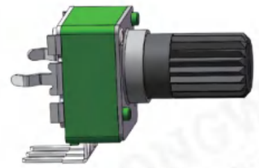
LW092V0-D



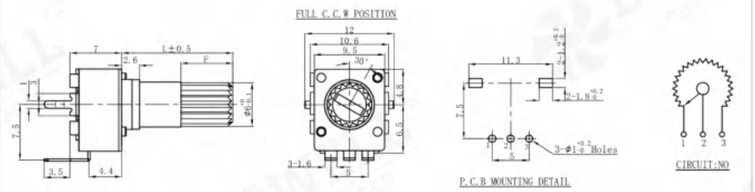


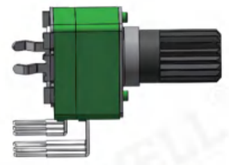
LW092VS-N



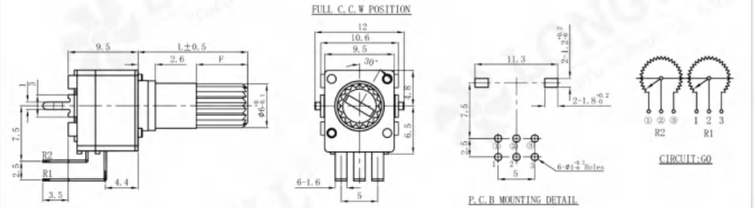


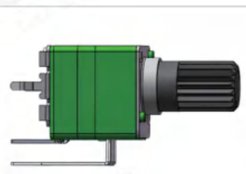
LW092H0-N



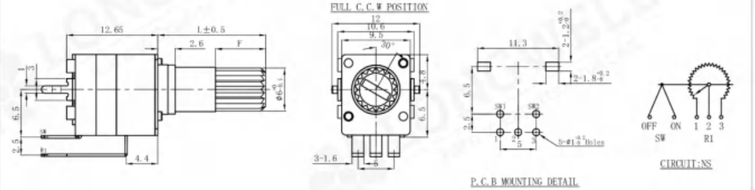


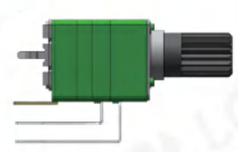
LW092H0-G



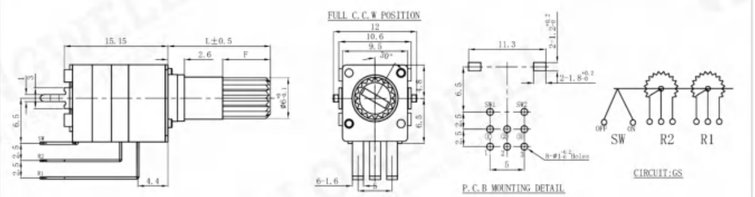


LW092HS-N





LW092HS-G



Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com

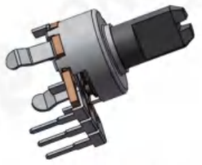
LW12 Series

Electrical Characteristics

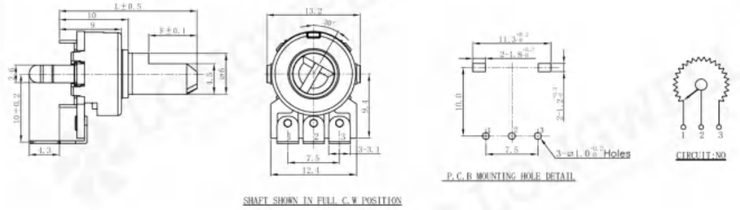
• Total Resistance:	500Ω-5MΩ	• Slider Noise:	Less than 100MV
• Residual Resistance:	<20Ω	• Gang Error:	≤±4dB (-40~0dB)
• Total Resistance Tolerance:	A B C D W	• Insulation Resistance:	100MΩ min. at 250V DC
• Power Ratting:	B taper 0.05w Other taper 0.025w	• Maximum Operating Voltage:	B taper 50V AC;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

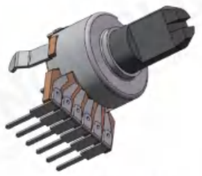
Mecanical Structure Itemsspecification

• 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		

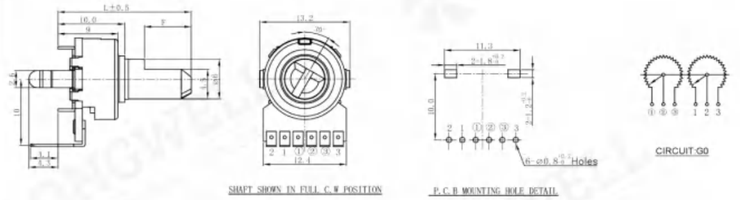


LW1212-NH

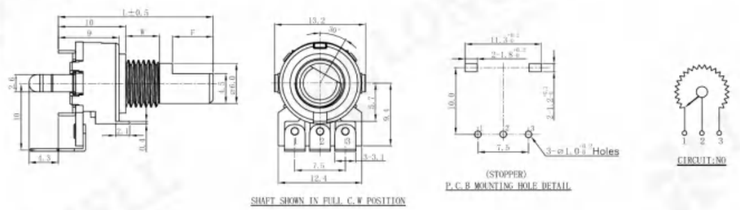


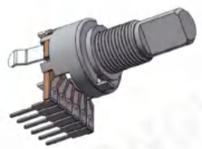


LW1212-GH

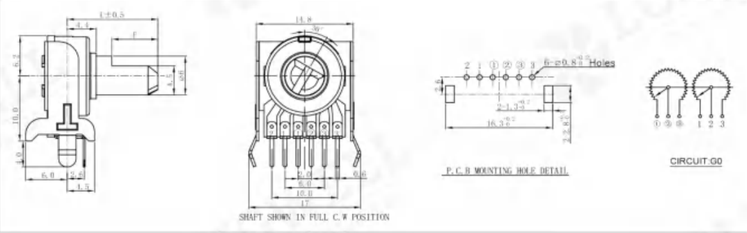


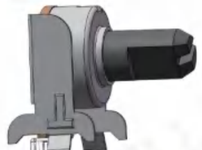
LW1213-NH



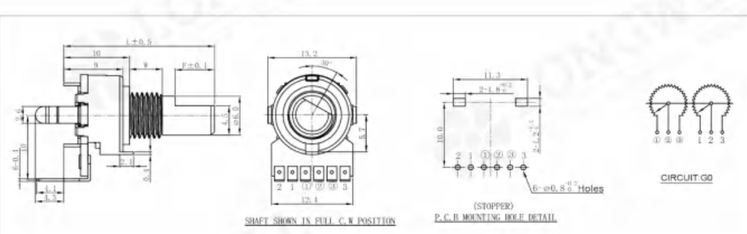


LW1213-GH

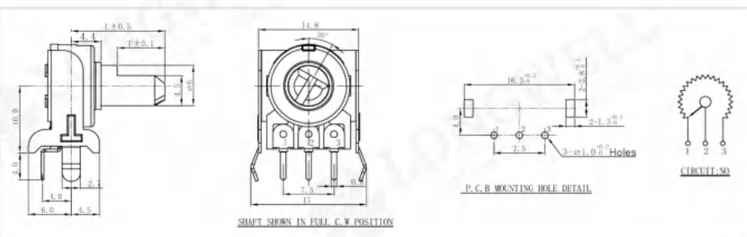


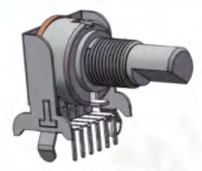


LW1212-NV

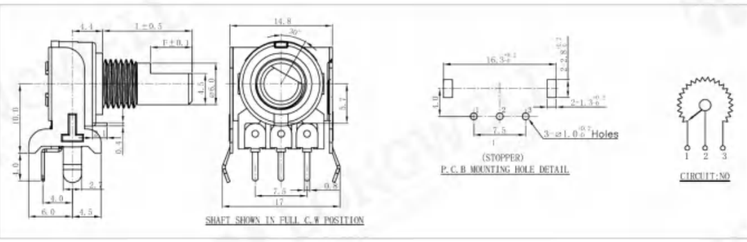


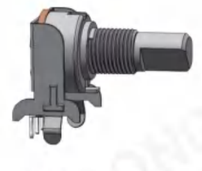
LW1212-GV



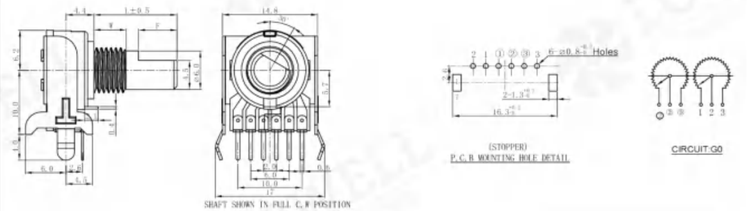


LW1213-NV





LW1213-GV



Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com

LW10 Series

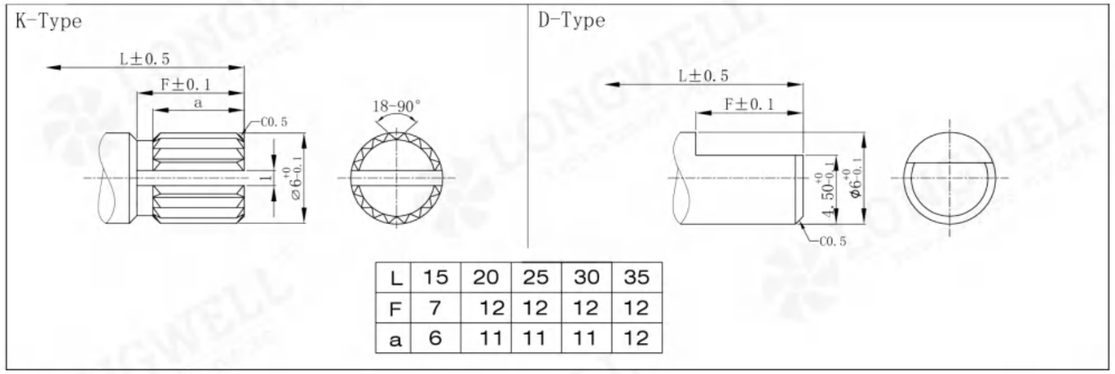
Electrical Characteristics

- 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℃

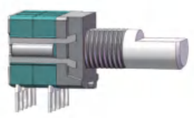
Mecanical Structure

- 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

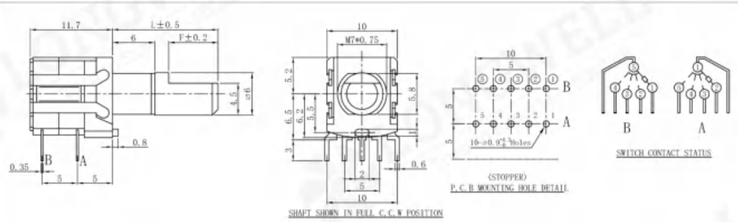
Type of Shaft



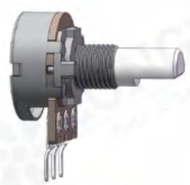
L	15	20	25	30	35
F	7	12	12	12	12
a	6	11	11	11	12



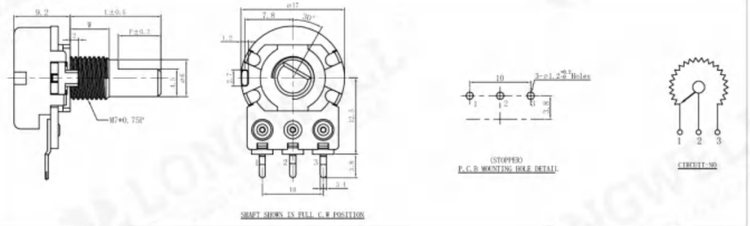
LW10

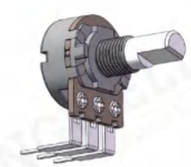


LW166 Series

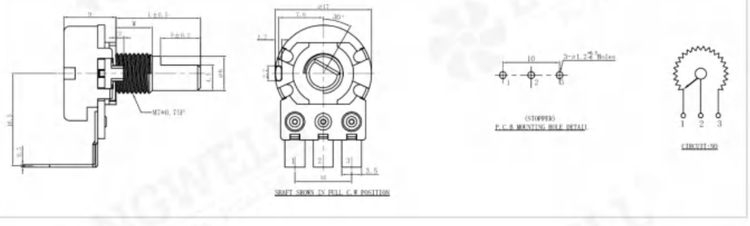


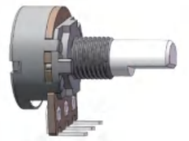
LW166-NV1



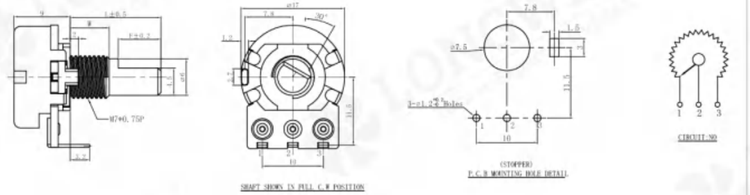


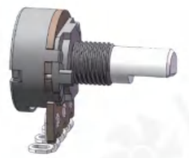
LW166-NH1



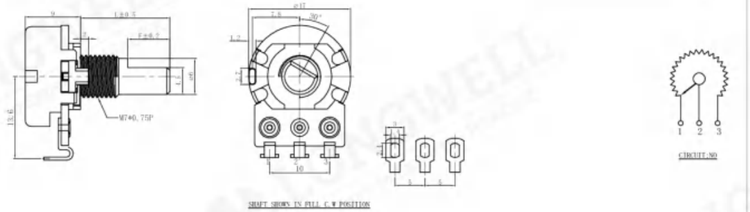


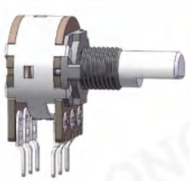
LW166-NH3



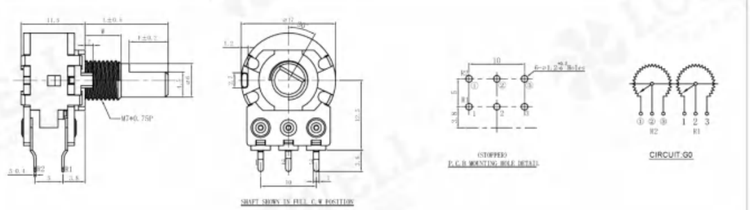


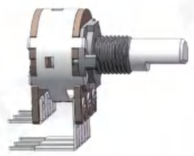
LW166-NH2



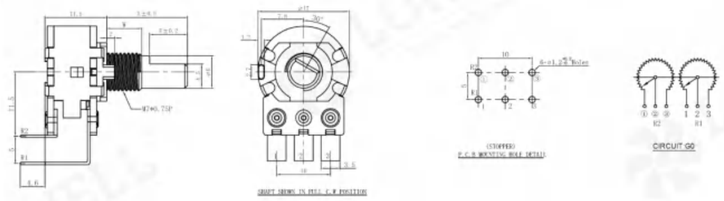


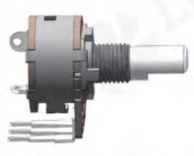
LW166-GV1



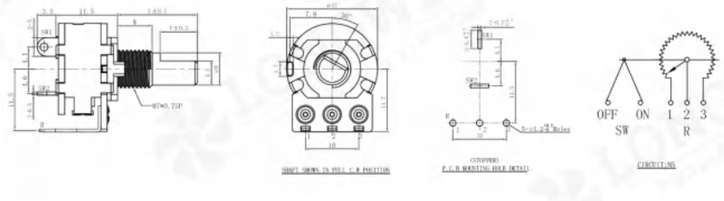


LW166-GH1

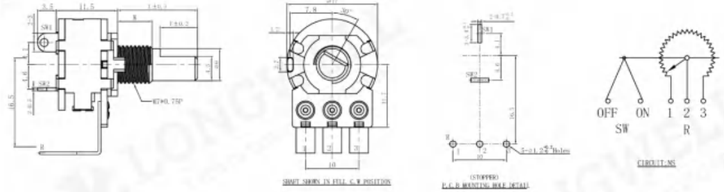


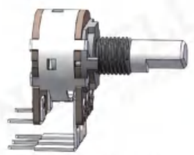


LW166-NS1

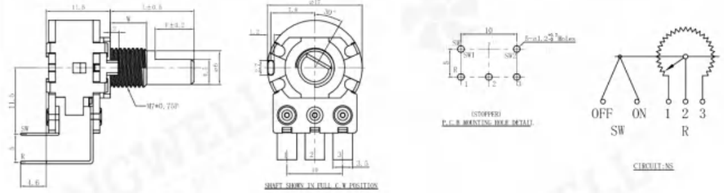


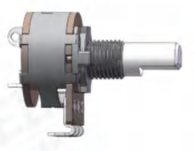
LW166-NS2



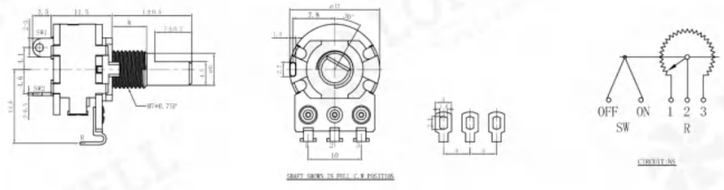


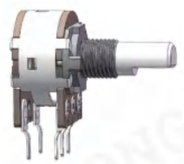
LW166-NS3



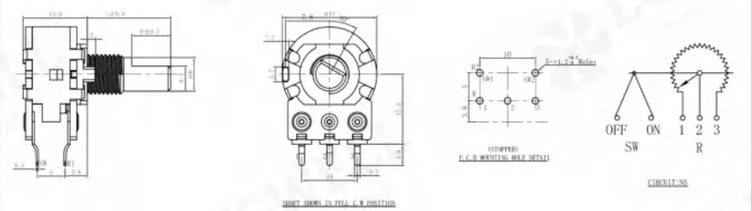


LW166-NS4

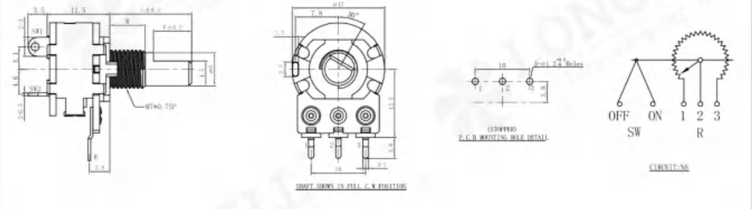




LW166-NS5



LW166-NS6



LW11 Series

Electrical Characteristics

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

Mecanical Structure

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

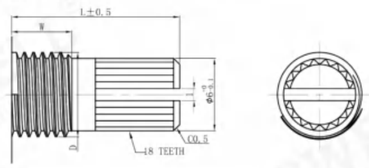
Switch characteristics

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

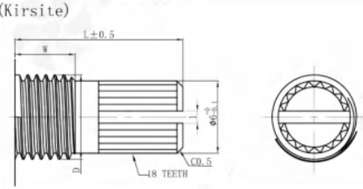
Ningbo Longwell Electric Technology CO, LTD
https://www.longwellfans.com Email:sales@zjlongwell.com

Shaft Type and Lengths

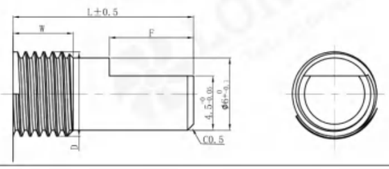
F Type (Kirsite)



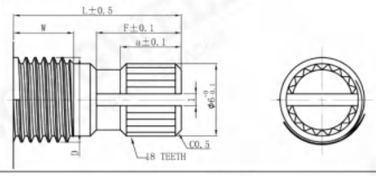
F Type (Kirsite)



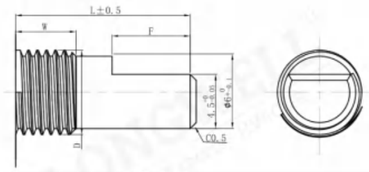
D Type (Aluminium alloy)



K Type(Aluminium alloy)



A Type(Krsite)



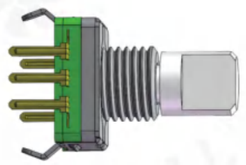
W=5

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

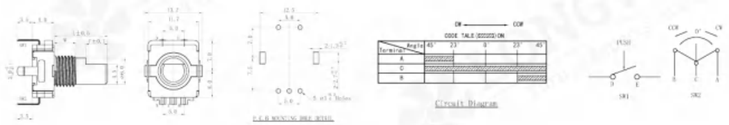
W=7

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

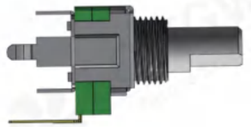
W	1	2.5	5	7	10	15
D	φ7	M7*0.75P		M9*0.75P		



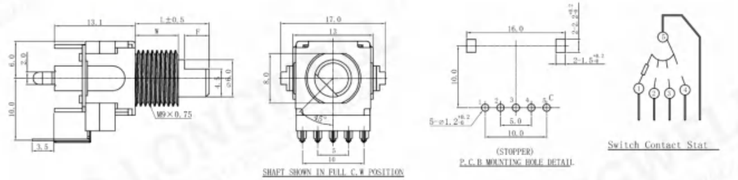
LW11

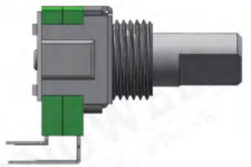


LW12(5Pin) Series

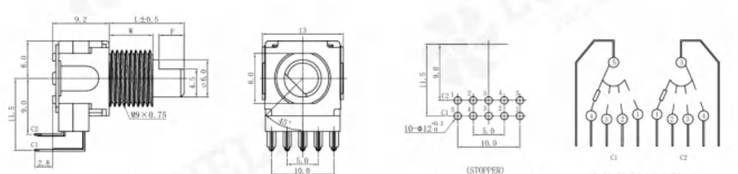


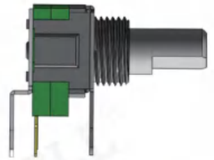
LW12-H1



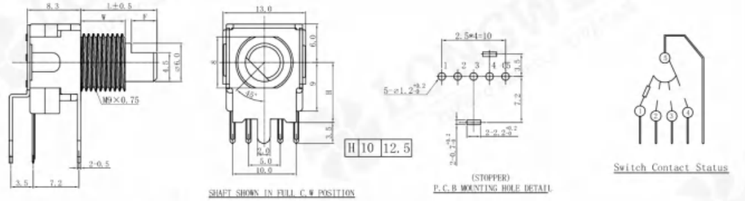


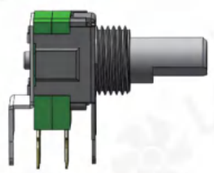
LW12-H2



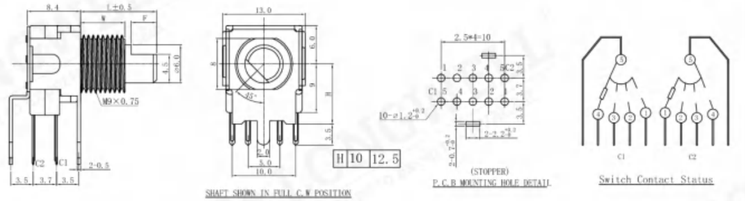


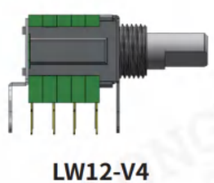
LW12-V1



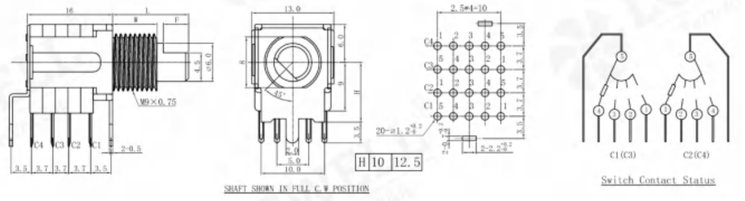


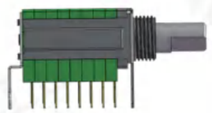
LW12-V2



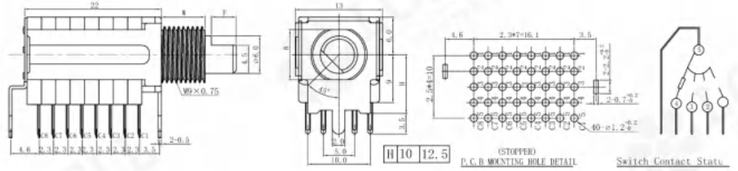


LW12-V4

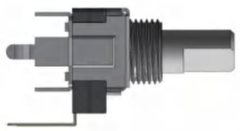




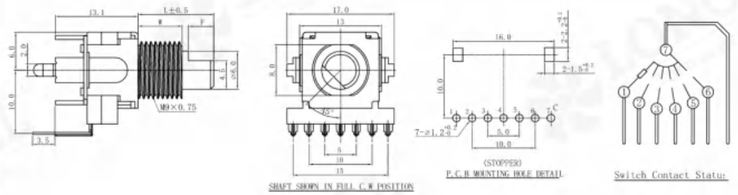
LW12-V8

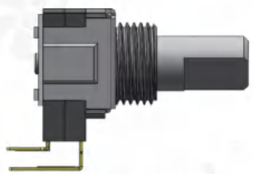


LW12(7Pin) Series

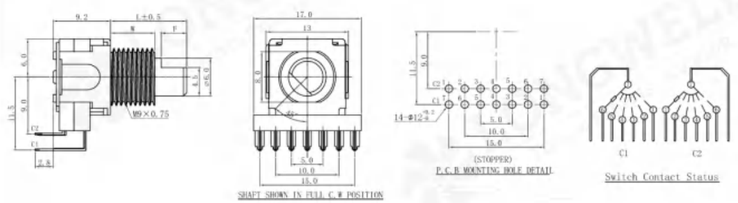


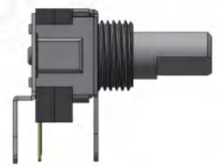
LW12-H1-01



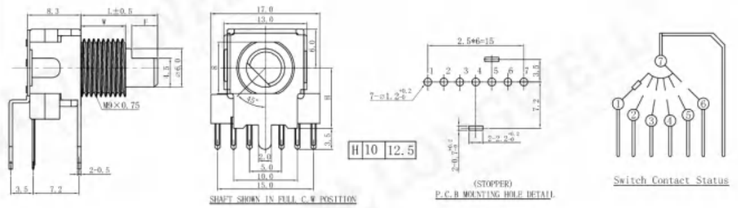


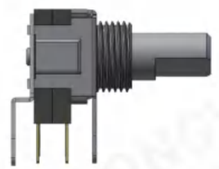
LW12-H2-01



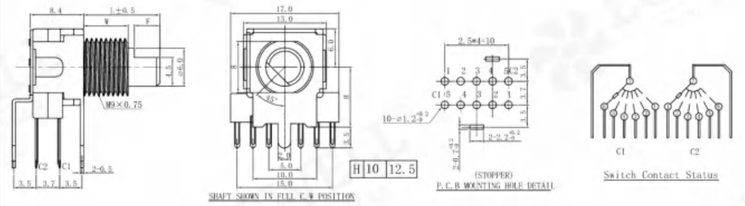


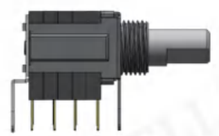
LW12-V1-01



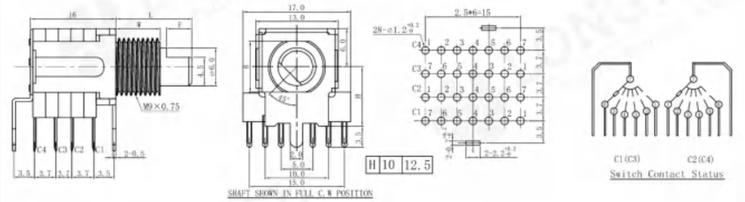


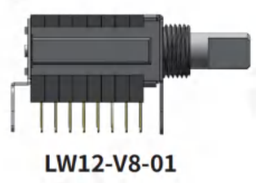
LW12-V2-01



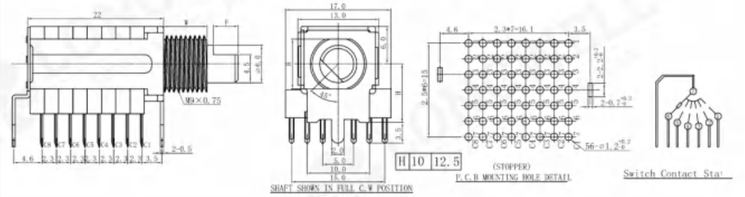


LW12-V4-01





LW12-V8-01



LW16 Series

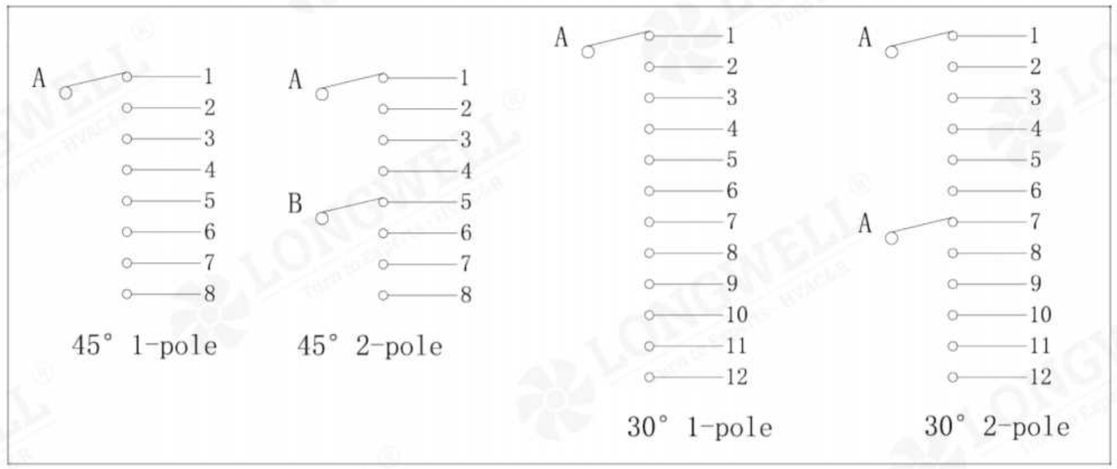
Electrical Characteristics

• 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		

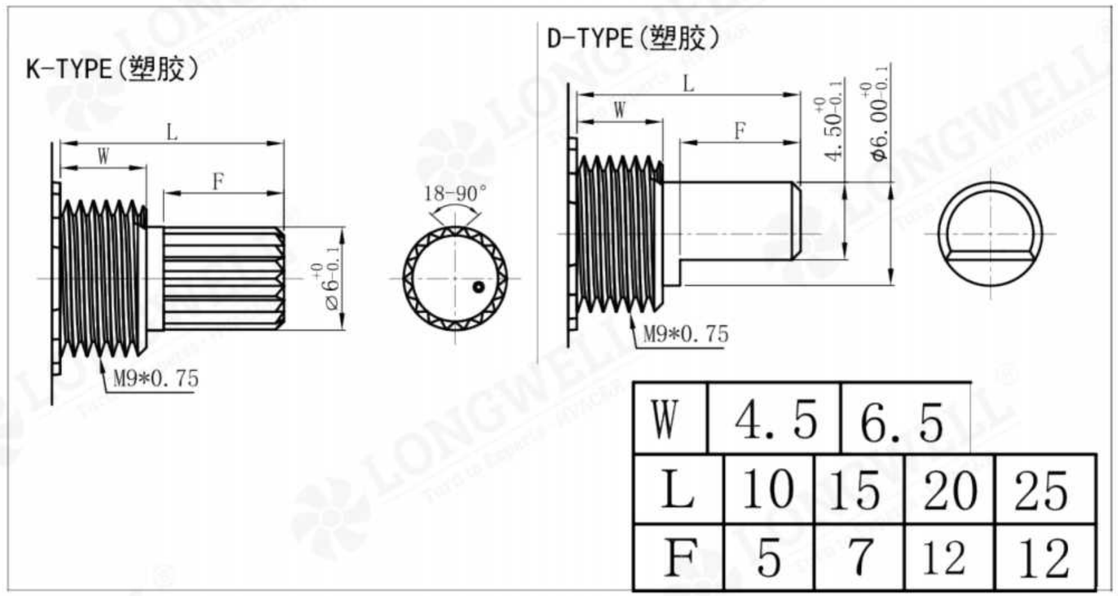
Mecanical Structure Itemsspecification

• 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

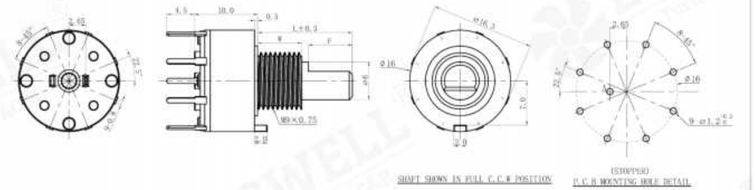


Type of Shaft

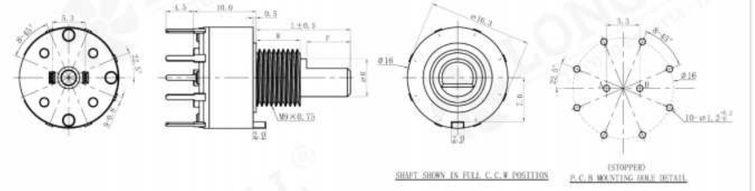


W	4.5	6.5		
L	10	15	20	25
F	5	7	12	12

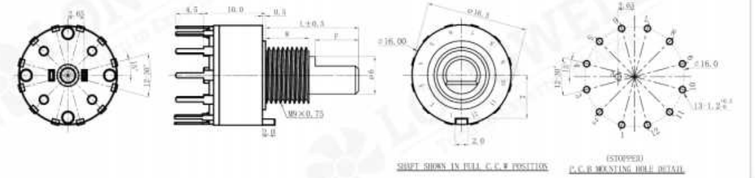
LW16-NB



LW16-GB



LW16-NA



LW16-GA