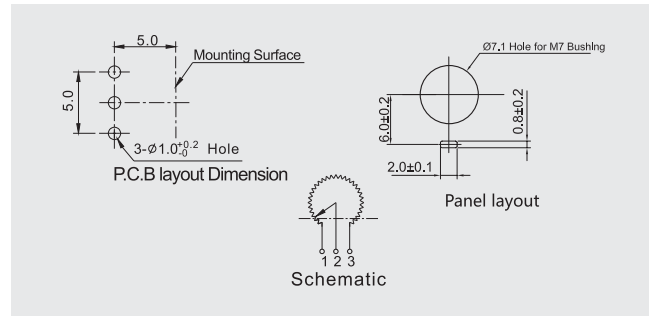
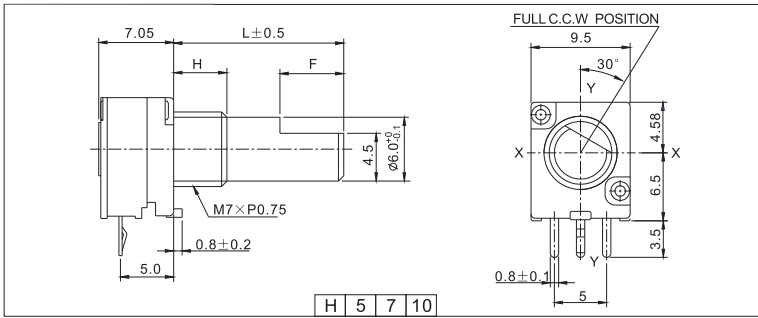


# Potentiometers

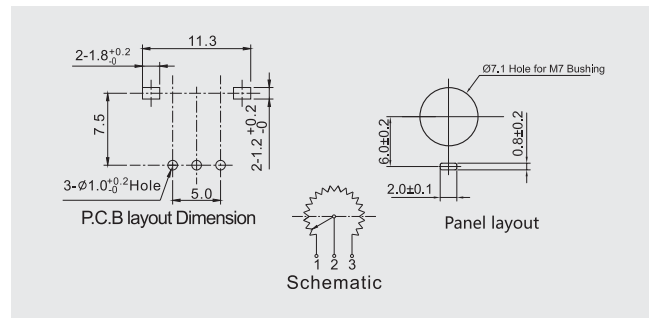
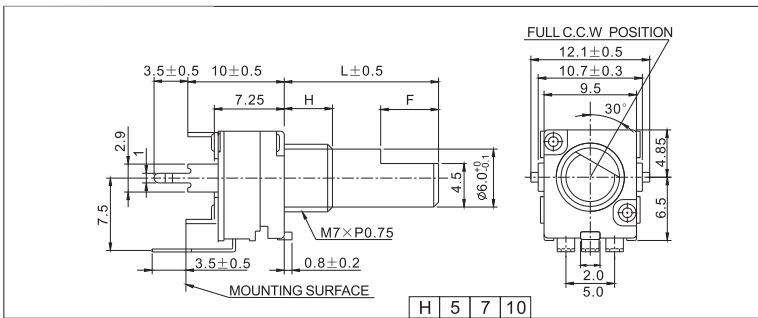
## Rotary Potentiometer with Metal Shaft

GP61 Series

### Side Adjust, 1 Gang, No Switch



### Top Adjust, 1 Gang, No Switch



### ELECTRICAL SPECIFICATIONS:

- > TOTAL RESISTANCE: 1KOhm to 500KOhm +/-20%
- > MAX. OPERATING VOLTAGE: 50VAC, 20VDC
- > RATED POWER: 0.05W
- > SLIDING NOISE: 100mv Max.
- > INSULATION RESISTANCE: 100MOhm at 250VDC
- > WITHSTAND VOLTAGE: 250VAC 1 Minute
- > RESIDUAL RESISTANCE: 20 Ohm max. (Terminal 1-2, 2-3)

### MECHANICAL SPECIFICATIONS:

- > TOTAL ROTATIONAL ANGLE: 280° +/- 10°
- > ROTATIONAL TORQUE: 10gf.cm to 90gf.cm
- > CLICK TORQUE: 30gf.cm to 120gf.cm
- > ROTATIONAL STOPPER STRENGTH: 3.0Kgf.cm Min.
- > PUSH-PULL STRENGTH: 5.0Kgf.cm Min.
- > OPERATING TEMPERATURE RANGE: -10°C to +70°C
- > ROTATIONAL LIFE: 15,000 Cycles (standard); 100,000 Cycles (long life)

### How to order:

GP61

#### 1 SHAFT TYPE:

M Metal Single Shaft (Standard)

#### 2 TERMINAL CONFIGURATION:

blank Side Adjust, PC Pins  
H Top Adjust, PC Pins

#### 3 NUMBER OF UNIT:

S Single Gangs (Standard)  
D Double Gangs  
3 3 Gangs  
4 4 Gangs  
6 6 Gangs

#### 4 LENGTH OF BUSHING

5 5mm (Standard)  
7 7mm  
0 10mm

#### 5 SWITCH TYPE:

N Without Switch  
T With Momentary Push Switch  
L With Push Lock Switch  
TR With Momentary Push Switch and Rotary Switch  
R With Rotary Switch

#### 6 DETENT:

blank No Detent  
1C Center Detent  
11C 11 Detents  
21C 21 Detents  
41C 41 Detents

#### 7 RESISTANCE TAPER:

A Audio (15A)  
B Linear (Standard)  
C Reverse Audio (15C)  
D Audio (10A)

#### 8 TOTAL RESISTANCE:

Free Text e.a.: 10K for 10K Ohm

#### 9 LENGTH OF SHAFT:

See Note1

#### 10 FULL CCW POSITION:

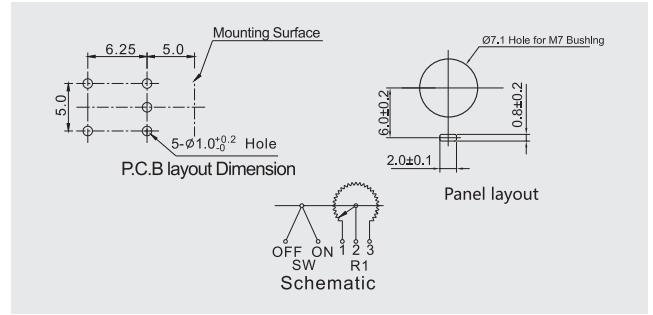
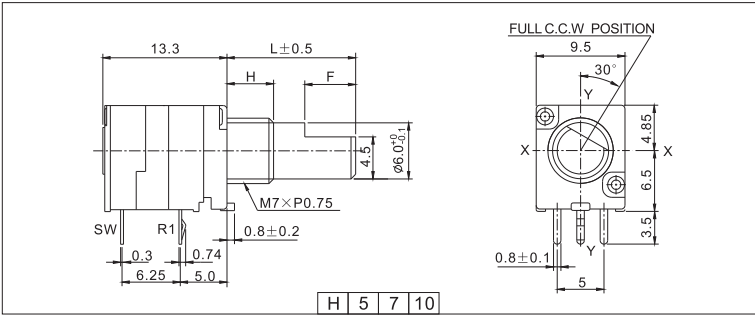
See Note2

# Potentiometers

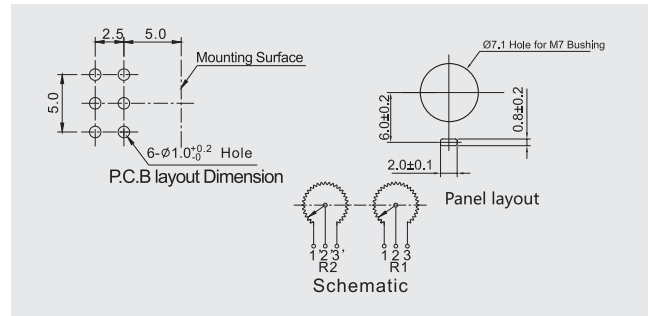
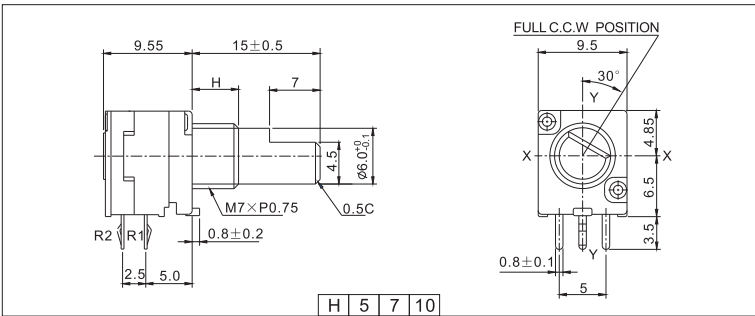
## Rotary Potentiometer with Metal Shaft

GP61 Series

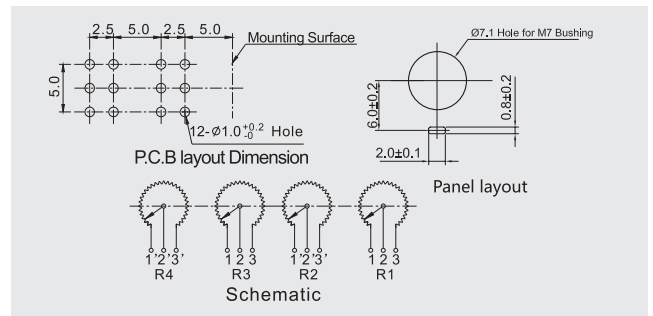
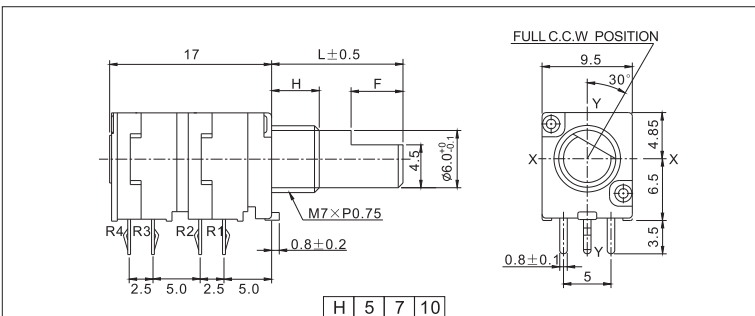
Side Adjust, 1 Gang, With Rotary Switch



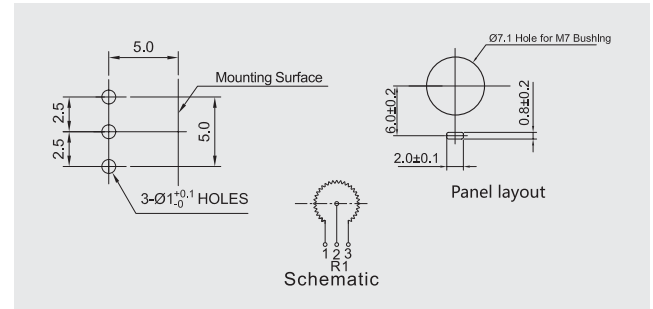
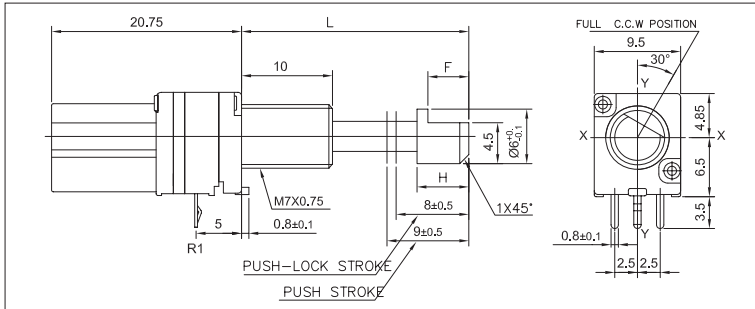
Side Adjust, 2 Gangs, No Switch



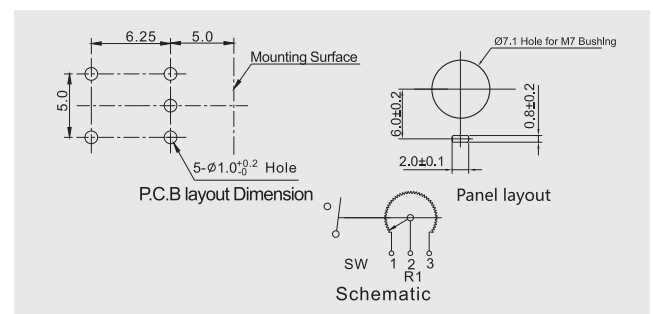
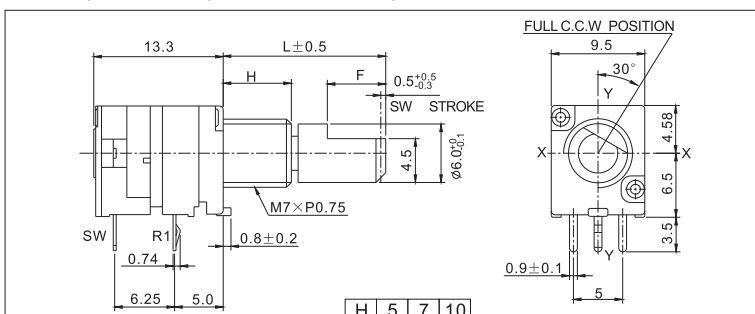
Side Adjust, 4 Gangs, No Switch



Side Adjust, 1 Gang, 10mm Bushing Length, with Push-Lock Switch



Side Adjust, 1 Gang, With Momentary Switch

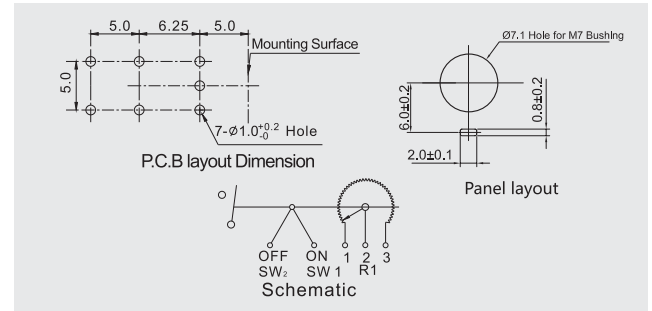
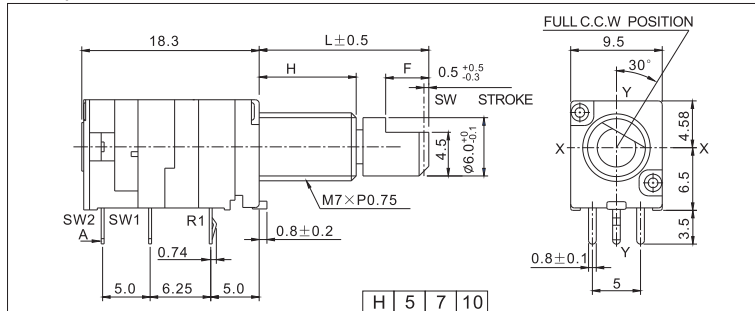


# Potentiometers

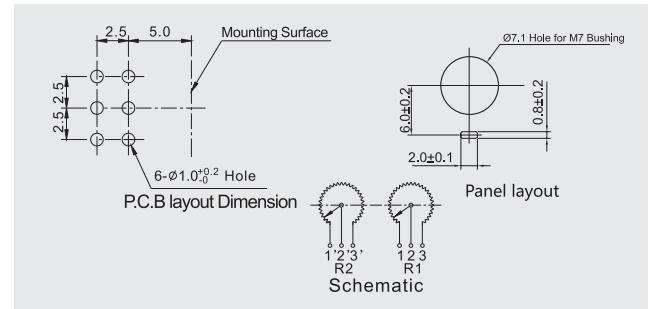
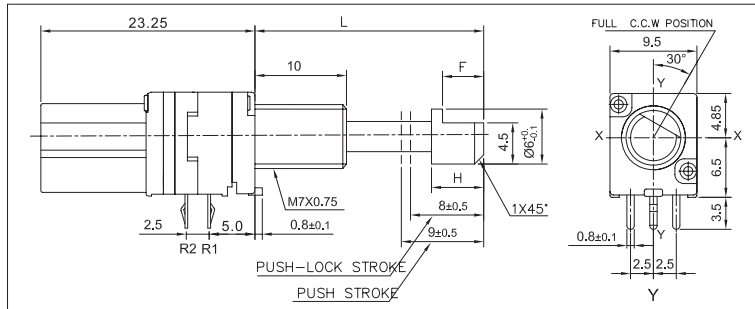
## Rotary Potentiometer with Metal Shaft

GP61 Series

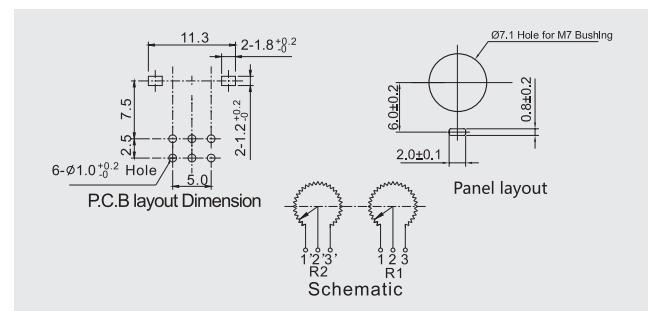
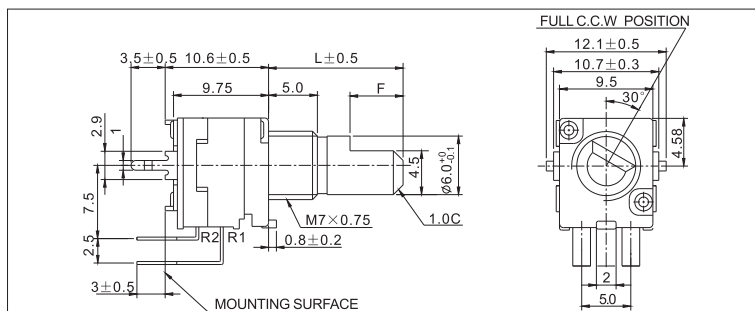
### Side Adjust, 1 Gang, With Both Momentary and Rotary Switch



### Side Adjust, 2 Gangs, 10mm Bushing Length, with Push-Lock Switch



### Top Adjust, 2 Gangs, 5mm Bushing Length



## Note 1: Shaft Type and Lengths

### (1) No push lock

**Q-Type**

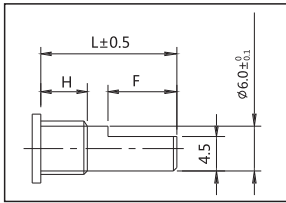
Bushing length H=5							
Code	1	2	3	4	5	6	7
L	10	12	15	17	20	25	30
P	4	5	7	10	13	14	14
T	4	4	6	9	12	12	12
M	1	1	1	2	2	2	4

Bushing length H=7						Bushing length H=10							
Code	1	2	3	4	5	6	Code	1	2	3	4	5	6
L	15	17	18	20	25	30	L	18	19	20	22	25	30
P	6.5	8	9	11	12	14	P	6	7	6.5	8	11	14
T	5.5	7	8	10	10	12	T	5	6	6	7	10	12
M	1	1	1	1	2	4	M	1	1	1	2	2	4

**A-Type (die-casting)**

Bushing length H = 5				
Code	1	2	3	4
L	12.5	14.6	15	20
F	6	7	7	12

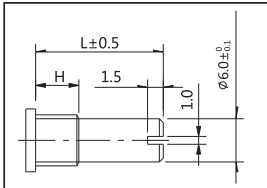
### F-Type



Bushing length H = 5										
Code	1	2	3	4	5	6	7	8	9	0
L	10	12.5	15	17	17	20	20	25	25	30
F	4	6	7	5	9	7	12	12	15	12

Bushing length H = 7					Bushing length H = 10									
Code	1	2	3	4	5	6	7	8	Code	1	2	3	4	5
L	13	15	17	20	21.8	25	25	30	L	15	17	20	25	30
F	5	7	7	12	12	12	15	12	F	4	5.5	7	12	12

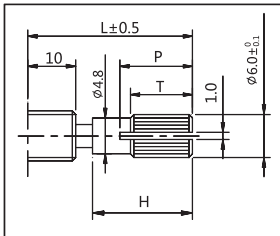
### S-Type



Bushing length H = 5								Bushing length H = 7				Bushing length H = 10						
Code	1	2	3	4	5	6	7	8	Code	1	2	3	4	Code	1	2	3	4
L	7	8	10	15	17	20	25	30	L	15	20	25	30	L	15	20	25	30

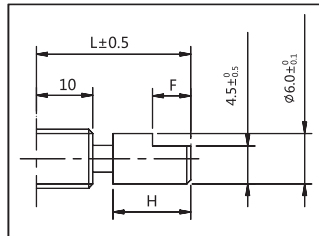
### (2) with push lock

#### Q-Type



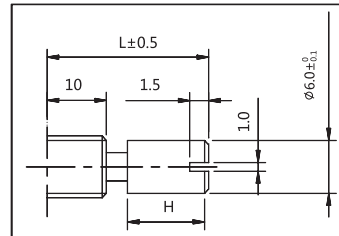
Bushing length=10			
Code	1	2	3
L	25	30	35
H	5.7	10.7	15.7
P	4	7	13
T	3	6	12

#### F-Type



Bushing length=10			
Code	1	2	3
L	25	30	35
F	4.5	7	12
H	5.7	10.7	15.7

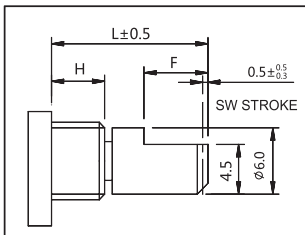
#### S-Type



Bushing length=10			
Code	1	2	3
L	25	30	35
H	5.7	10.7	15.7

### (3) With momentary switch

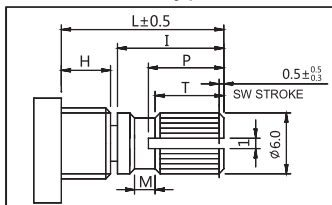
#### F-Type



Bushing length H = 5					
Code	1	2	3	4	5
L	10	15	20	25	30
F	3	7	12	12	12

Bushing length H = 7				Bushing length H = 10					
Code	1	2	3	4	Code	1	2	3	4
L	15	20	25	30	L	20	25	30	
F	6	10	12	12	F	7	12	12	

#### Q-Type

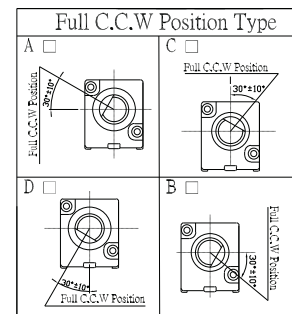


Bushing length H=5								
Code	1	2	3	4	5	6	7	8
L	10	15	15	20	20	25	25	30
P	3.2	6.5	7	11	13	12	14	14
T	3.2	5.5	6	10	12	10	12	12
M	1	1	1	1	1	2	2	4

Bushing length H = 10				Bushing length H = 7							
Code	1	2	3	Code	1	2	3	4	5	6	7
L	20	25	30	L	15	15	20	20	25	25	30
P	6.5	11	14	P	6	6.5	11	12	12	14	14
T	6	10	12	T	6	5.5	10	11	10	12	12
M	1	2	4	M	1.2	1	1	1.2	2	2	4

### Note 2: Full C.C.W Shaft Position:

#### F/A-Type shaft



#### Q/S-Type shaft

##### Full C.C.W Position Type

