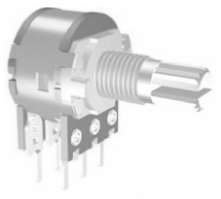
F16K Series
Metal shaft Potentiometer



RoHS
COMPLIANCE

Feature

1. Metal shaft style.
2. Carbon film element.
3. Wide range of resistance tapers.
4. Long Life Type Available.

F16K Series Rotary Potentiometer

Electrical characteristics

- Total Resistance.....1KΩ~1MΩ
- Total Resistance Tolerance.....500Ω<R<1MΩ: ±20%
  R≤500Ω or R≥1MΩ: ±30%
- Resistance Taper.....A,B,C
- Max. Operating Voltage.....Linear Taper B:AC 200V,
  Other Tapers: AC 150V
- Rated Power.....Linear Taper B : 0.2W; Other Tapers:0.1W
- Rotational Noise.....Less than 100mV
- Insulation Resistance.....More than100MΩ at DC 500V
- Withstand Voltage.....1 minute at AC 500V
- Residual Resistance.....Term.1~2:Less than 20Ω
  Term.2~3:Less than 20Ω
- Gang Error(Dual Unit).....-40dB~0dB ± 3dB

Mechanical characteristics

- Total Rotational Angle.....300°±5°
- Rotational Torque.....20gf.cm~100gf.cm
- Stopper Strength.....7.0Kgf.cm Min.
- Push-Pull Strength..... 8.0Kgf Min
- Click Torque.....100~300gf.cm
- Bushing & Nut Tight Strength.....8Kgf.cm Min

Switch characteristics

- Switch Circuit.....S.P.S.T.
- Contact Resistance.....Less than 50mΩ
- Rated Power.....Single Unit : 1.0 A at AC/DC 12V
- Rotational Angle..... 35°±10°
- Switch Torque.....70 ~250 gf.cm.
- Switch Life.....15,000 Cycles.

Durability

- Rotational Life.....Standard life: 15,000 Cycles Min.
  Long life: 1,000,000 Cycles Min.
- Operating Temperature Range.....-10°C ~ +70°C

F16K Series
Metal shaft Potentiometer

HOW TO ORDER

F16K-	G	P	3	Q	1	C	B	100K	1

Model Series

Code	Gang Number
N	1 Gang
G	2 Gangs
J	4 Gangs
L	6 Gangs
S	Single Gang With Rotary Switch (Switch Terminal at Bottom)
H	Single Gang With Rotary Switch (Switch Terminal at Side)

Code	Terminal Configuration (See Note3)
V	Side Adjust, PC Pins
P	Top Adjust, Solder Lugs
D	Rear Adjust, PC Pins
H	Top Adjust, PC Pins

Code	Detent Option
0	No Detent
1	Center Detent
2	11 Detents
3	21 Detents
4	41 Detents

Shaft Type & Length

See Note 1

Full CCW Position

See Note 2

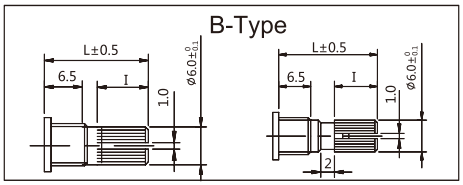
Code	Resistance Taper
A	Audio (15A)
B	Linear (Single Unit: 1B; Dual & Mulit- Gangs: 3B)
C	Reverse Audio(15C)
D	Audio (10A)

Total Resistance
1K
2K
5K
10K
20K
50K
100K
200K
500K
1MEG

Code	Operation Life
(Blank)	Std. Life w/o anti-sulfur
1	Std. Life w/ anti-sulfur
2	Long Life w/ anti-sulfur(**Multi-gangs**)
3	Long Life w/o anti-sulfur(**Multi-gangs**)
6	Long Life w/ anti-sulfur(1 **gang**)
7	Long Life w/o anti-sulfur(1 **gang**)

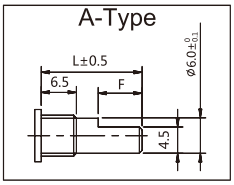
Note 1: Shaft Type & Shaft Length:

(1)Die-Casting Shaft: (for 1, 2 gangs)



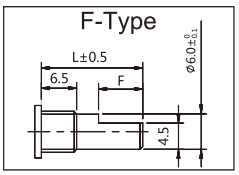
Code	1	2	3
L	12	15	20
I	4.5	6.5	11.5

Code	4	5	6	7
L	25	30	15	20
I	14	19	6	10
M	2	2	1	2

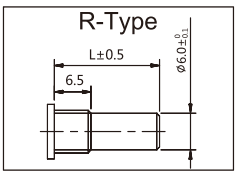


Code	1	2	3
L	15	20	25
F	7	12	12

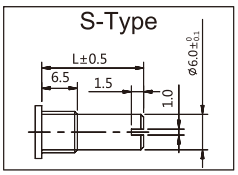
(2)Machined Shaft: (for 1, 2, 4, 6 gangs or rotary switch type)



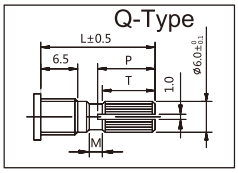
Code	1	2	3	4	5	6
L	10.5	15	20	25	30	35
F	3.5	7	12	12	12	12



Code	1	2	3	4	5
L	15	20	25	30	35



Code	1	2	3	4	5	6
L	10	15	20	25	30	35

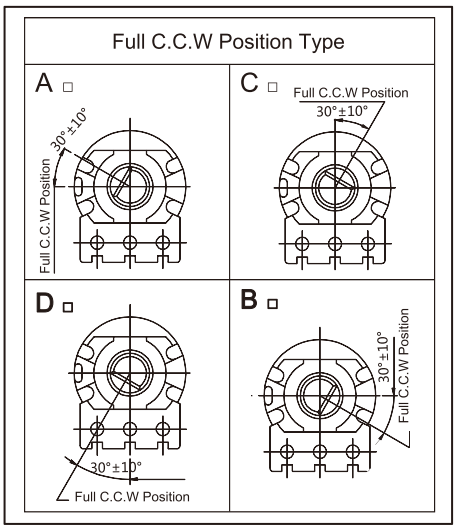


Code	1	2	3	4	5	6
L	10	15	20	25	30	35
P	2.5	7	12	14	14	14
T	2.5	6	10	12	12	12
M	1	1	2	2	4	4

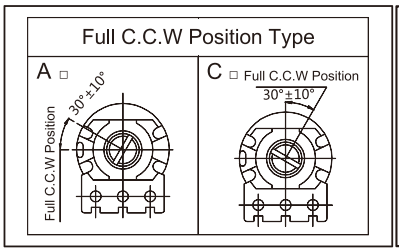
F16K Series
Metal shaft Potentiometer

Note 2: Full C.CW position

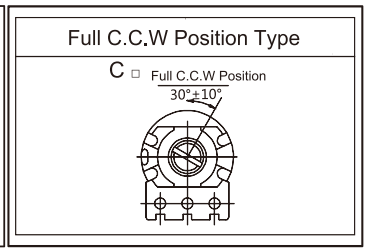
F-type shaft



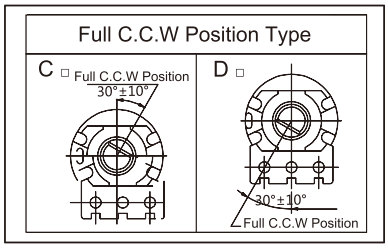
Q/S-type shaft



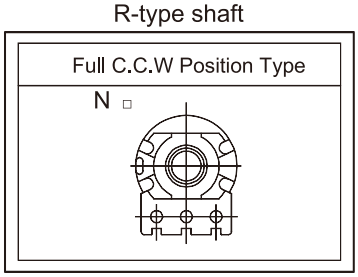
B-type shaft



A-type shaft



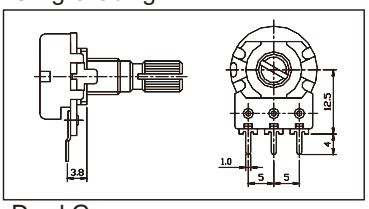
R-type shaft

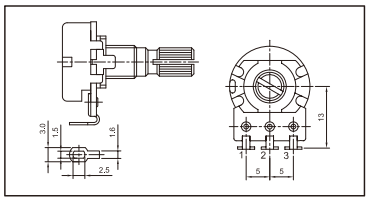


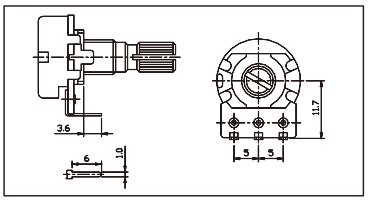
Note 3: Terminal Configuration

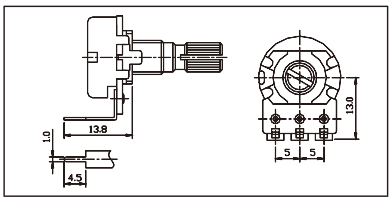
V-TYPE P-TYPE D-TYPE H-TYPE

Single Gang:

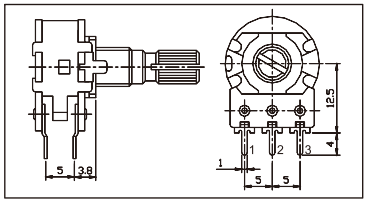


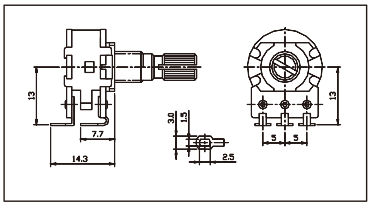


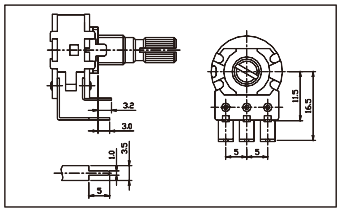


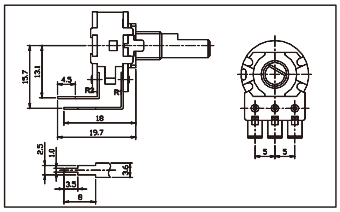


Dual Gang:

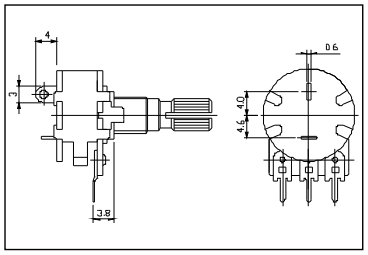


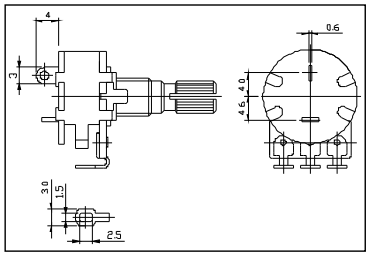


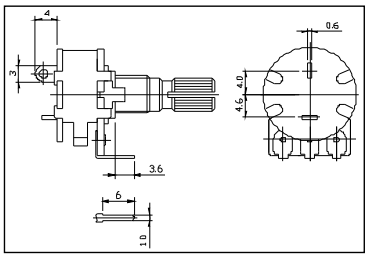


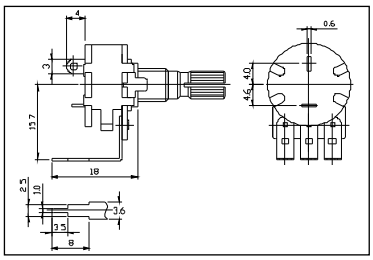


Single Gang with Rotary Switch: (Switch Terminal at Bottom)

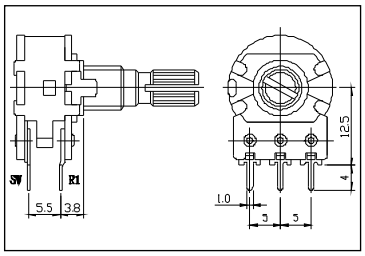


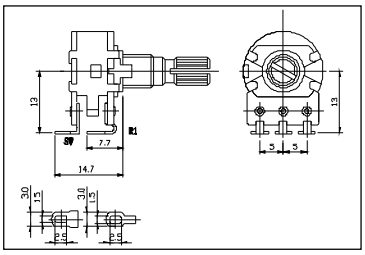


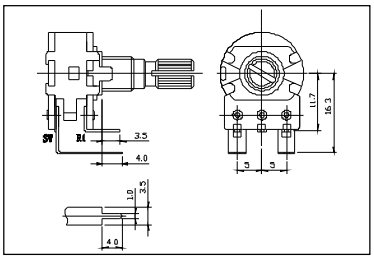


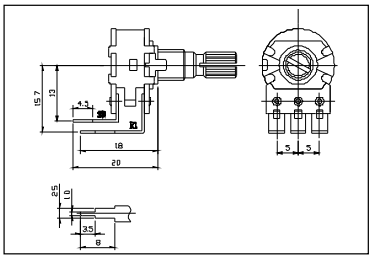


Single Gang with Rotary Switch: (Switch Terminal at Side)



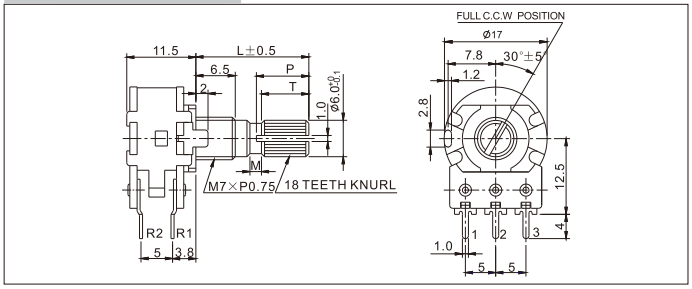


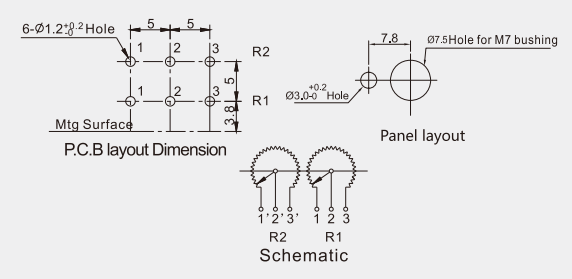
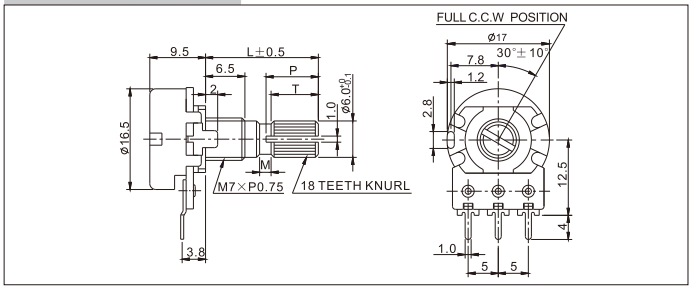
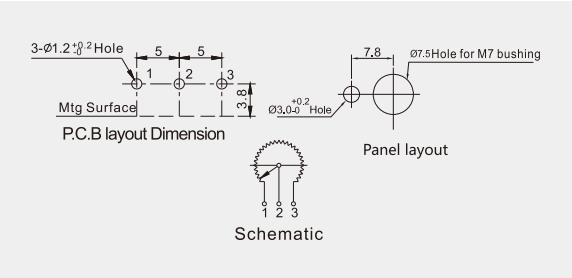




F16K Series
Metal shaft Potentiometer

F16K-GV□Q□ Dual Gang, Side Adjust, PC Pins, Q-type Shaft





F16K-NV□Q□ Single Gang, Side Adjust, PC Pins, Q-type Shaft