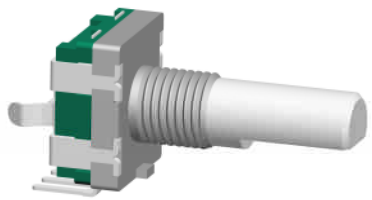
SONG HUEI ELECTRIC CO.,LTD

11mm Rotary type Encoders

ED1112

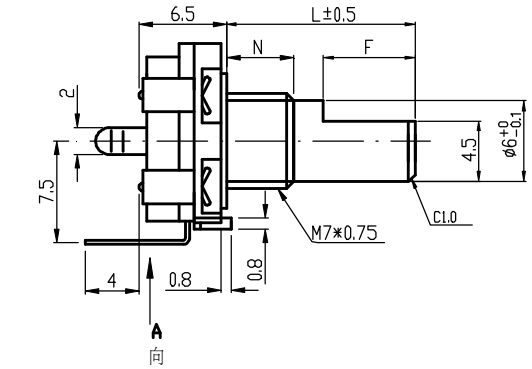


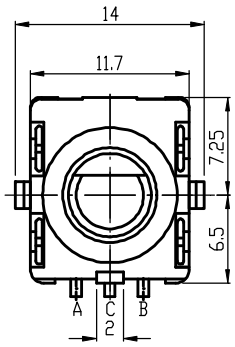
Part Number

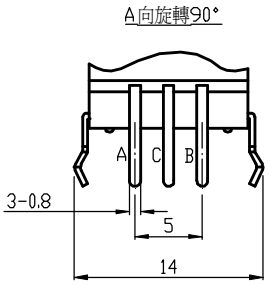
ED1112 – 20P – 20C – 25 F

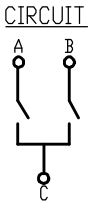
- 20P → Pulses
- 20C → Clicks
- 25 → Shaft lengeth
- F → Shaft typ

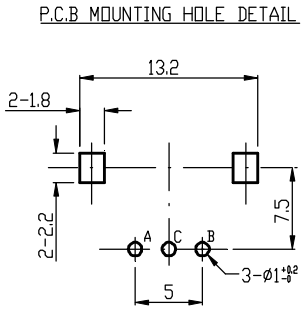
Dimensions



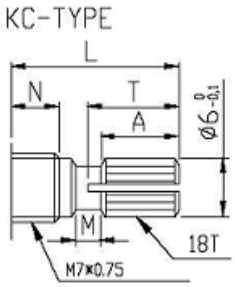




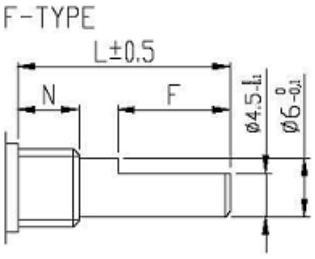




Shaft Type



N	5	7			
L	10	12	15	20	30
T	25	5	7	12	14
A	2	4	6	10	12
M	0.5	1	1	2	4



N	5	7	
L	15	20	25
F	7	10	12

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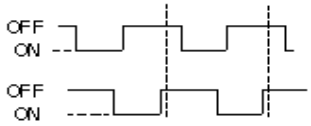
11mm Rotary type Encoders

1.Electrical Characteristics

Power Rating	DC 5V 0.5mA
Insulation Resistance	More than 10 MΩ at DC 250V 1 Minute
Withstand Voltage	1 Minute at AC 50V
Sliding Noise	t1,t3 ≤3mS(Test conditions:360°/S);t2≤2mS Using the C/R filter circuit is Recommended
Resolution	20 Pulses/360° for each phase .
Phase Difference	△T=0.25±0.17T
Output Signal And Rotational Direction	C.C.W direction A Signal B Signal 
Working Temperature	-10℃ ～ 70℃
Storage Temperature	-40℃ ～ 85℃

2.Mechanical Characteristics

Total Rotational Angle	360 °
Rotational Torque	30~200 gf.cm ※(Shaft Rotatable at-10℃ ~ +5℃)
Shaft Push-Pull Strength	5.1 Kgf.cm
Number and Position Detent	• 20etents (Step angle: 18°±3°) • 0 detents (Step angle:360°)
Shaft Play in Axial Direction	0.4mm Max.
Rotational Life	30,000 Cycles Min. at a speed of 600 cycles/H
Resistance To soldering Heat	Manual Soldering: Less than 300℃ and quicker than 3 seconds. Auto soldering:260±5℃ 3~5 seconds.