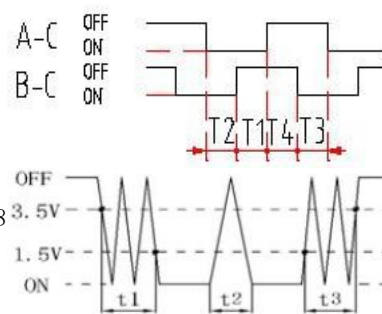
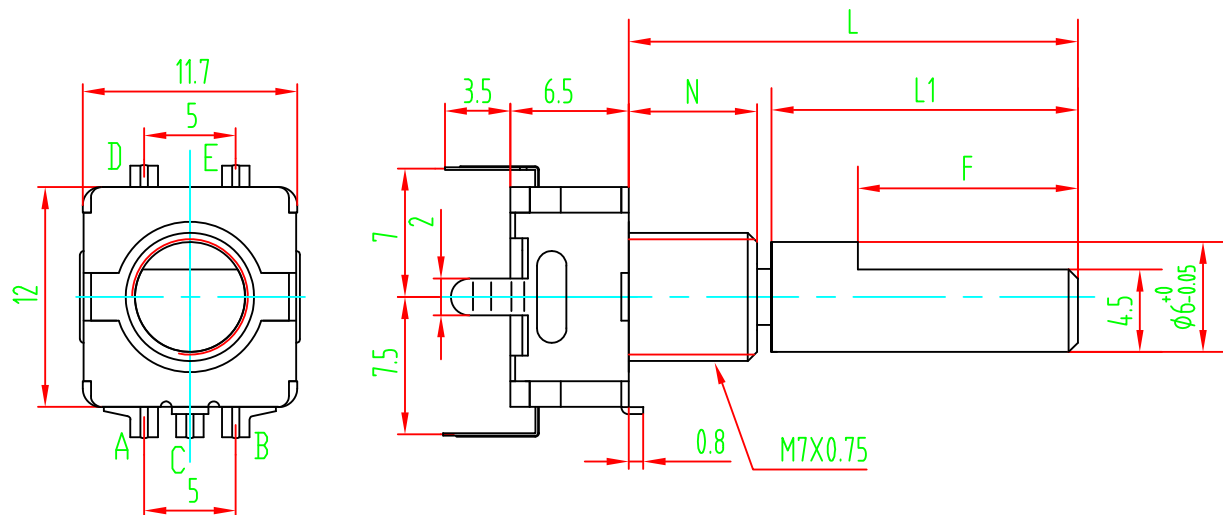


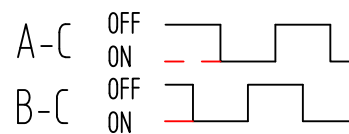
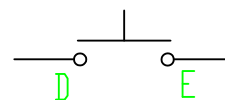
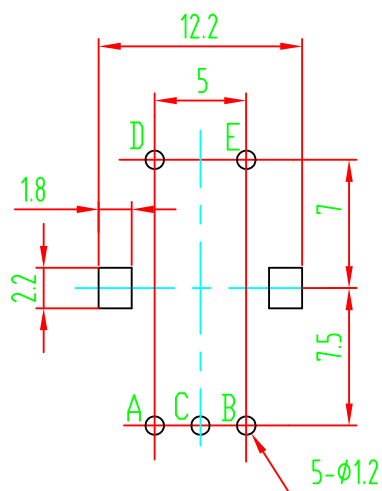
EC11 Series Specification

EC11E20-20P20C-SW	
Mechanical Characteristics	
ITEM	SPECIFICATION
Total Rotational Angle	360°
Rotantional Torque	☐ 20≈200gf.cm
Click pull-out Torque	☐ 20≈150gf.cm
Shaft push-pull Strength	8.0kgf-8.0kgf Min at 8sec
Shaft Wobble Strength	0.7xL/30 mm P-P max L:shaft length
Number of Click	☒ 20 clicks Step Angle:18° ±2° ☐ 30 clicks Step Angle:12° ±2°
Bushing-nut tightening strength	7.0kgf.cm Min
Shaft rotational gap	0.4mm Max
Shaft play in rotational wobble	5° Max
Electrical Characteristics	
ITEM	SPECIFICATION
Power rated	DC 5V, A、B lead 5mA Max, C lead 10mA Max
Output signal	A、B 2 signals
Resolution	☒ 20 pulses/360° ☐ 15 pulses/360°
Contact resistance between pins	1 Ω Max
Phase difference	T1、T2、T3、T4≥0.08
Rotation noise	t1, t3≤3mS t2≤2mS
Insulation resistance	100MΩ Min at DC 250V
Dielectric	1 minute at AC 300V
Endurance characteristics	
ITEM	SPECIFICATION
Rotational life	☐ 30,000±200 cycles ≤100gf.cm ☐ 15,000±200 cycles ≥100gf.cm
Storage temperature range	-40℃≈+85℃
Operating temperature range	-30℃≈+80℃
Soldering characteristic	dipping in soldering≤206℃±5° ,within 3S solder by hand:≤300℃±5° ,within 3S





Mounting Hole



L	15	☒ 20	23.5
L1	7.5	☒ 12.5	16
F	7	☒ 10	12
N	7	☒ 7	7

2				5			
1				4			
	DATE	REVISION	APPROVED	3			
2016.12.10	2016.12.10	2016.12.10	MODEL: EC11E20-20P20C-SW				
DWN	DHKD	APPD					