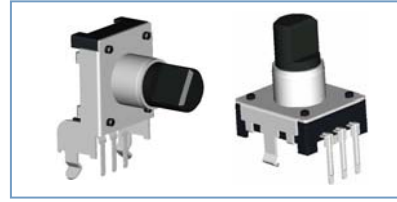
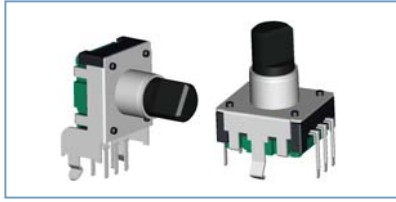


ED12 Series Rotary Encoder



ED12 — 12 — S — 24P — 24LC — F15A7

1 Model Series
产品系列

4 Pulse
脉冲数

5 Detent
定位数

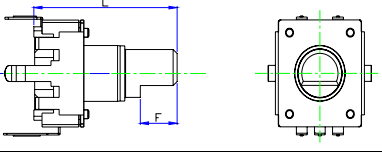
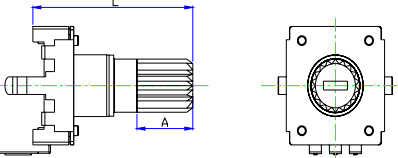
2 Design Code
设计代号

3 Switch Option
开关控制

6 Shaft Type and Shaft Length
轴型及轴长

Ordering Information 订货说明		Code 代码			
1	Moder Series 产品系列	ED12			
2	Design Code 设计代号		See Note 1 (ED12 Series Dimensions) 附件 1 (ED12 系列产品图)		
3	Switch Option 开关控制	S	With Momentary Switch 带瞬时接触开关		
			No Switch 不带开关		
4	Pulse 脉冲数	12P	12 脉冲		
		18P	18 脉冲		
		24P	24 脉冲		
5	Detent 定位数	0	12 Pulse Without Detent 12 脉冲不带定位	Code 代码	Detent torque 定位扭矩
		12	12Pulse With 12 Detent 12 脉冲带 12 定位		
		0	18 Pulse Without Detent 18 脉冲不带定位	LC	50±20gf.cm
		18	18 Pulse With 18 Detent 18 脉冲带 18 定位		
		0	24 Pulse Without Detent 24 脉冲不带定位	HHC	130±20gf.cm
		24	24 Pulse With 24 Detent 24 脉冲带 24 定位		
6	Shaft Type and Shaft Length 轴型及轴长		See Note 2 附表 2		

Note 2: Shaft Type and Shaft Length 轴型及轴长

F 轴		成品长	F12.5	F15	F16	F17.5	F20	F22.5	F25	F30
		L	12.5	15	16	17.5	20	22.5	25	30
		F	4.5	5	4.5	5	7	7	12	12
Y 轴		成品长	Y17.5	Y20	Y25	Y30				
		L	17.5	20	25	30				
		A	5	7	12	12				

MECHANICAL SPECIFICATION 机械性能

Operating Temperature 工作温度	-20°C ~ +70°C
Shaft Rotation Force 操作力矩	20gf.cm ~ 200gf.cm
Soldering Heat 焊接温度	260°C , 3~5sec
Push-pull Strength 轴推拉强度	5 Kgf.cm

ELECTRICAL SPECIFICATION 电气性能

Power Rating 额定功率	DC5V 10mA(Each Bit)
Output Signals 输出信号	12pulses/18pulses/24pulses, 360°
Locate Point 定位点	12detent points/18detent points/ 24detent points360°
Phase-Difference ΔT 相位差	0.08T Min.(Measurement shall be made under the condition which the shaft is rotated in 360°/S)
Insulation resistance 绝缘电阻	More than 100M Ω (AT 50V DC)
Contact resistance 接触电阻	1 Ω Max
Withstand Voltage 耐电压	For 1 minute at 100V AC
Rotational life 回转寿命	30,000 cycles

PUSH-ON SWITCH SPECIFICATION 推动开关

Switch Travel 开关工作行程	0.5±0.3mm
Switch Operating Force 开关作动力	610±306gf.cm
Switch Power Rating 开关额定功率	DC 12V 10mA
Switch Contact Resistance 开关接触阻抗	3 Ω Max
Switch Life 开关寿命	20,000 Cycles

Note 1 : ED12 Series Dimensions

<p>ED1212S-□ P-□ C-□</p>	<p>Dimensions: 6.0 (236), 5.0 (197), 7.0 (276), 2.0 (079), 7.5 (295), 3.7 (146), 0.8 (031), 0.5 (020), 4.5^{+0.1}_(.177^{+0.04}), $\phi 7$ (.276), $\phi 6.0$ (.256), C0.5 (.020), Switch travel</p> <p>MOUNTING SURFACE</p>	<p>Dimensions: 12.5 (.492), 5.0 (197), 13.4 (.529), 13.2 (.520), 5.0 (197), 7.0 (276), 2PLCS 1.8^{+0.2}_(.071^{+0.08}), 2.1^{+0.2}_(.083^{+0.08}), 7.5 (295), 5.0 (197), $\phi 1.0$ (.039^{+0.04}), DIA 5PLCS</p> <p>Mounting hole details</p> <p>DIMENSIONS: MM (INCHES)</p>
<p>ED1215S-□ P-□ C-□</p>	<p>Dimensions: 6.0 (236), 5.0 (197), 10 (394), 3.5 (138), 1.9 (075), 2.4 (094), 6 (236), 0.8 (031), 0.5 (020), 4.5^{+0.1}_(.177^{+0.04}), $\phi 7$ (.276), $\phi 6.0$ (.256), C0.5 (.020), Switch travel</p> <p>MOUNTING SURFACE</p>	<p>Dimensions: 12.5 (.492), 13.4 (.529), 10.8 (.425), 2.5 (098), 3.5 (138), 5.0 (197), 2PLCS 2.0^{+0.2}_(.071^{+0.08}), 2.1^{+0.2}_(.083^{+0.08}), 5.0 (197), $\phi 1.0$ (.039^{+0.04}), DIA 3PLCS</p> <p>Mounting hole details</p> <p>DIMENSIONS: MM (INCHES)</p>
<p>ED1212-□ P-□ C-□</p>	<p>Dimensions: 5.0 (197), 5.0 (197), 2.0 (079), 7.5 (295), 4.7 (185), 0.8 (031), 0.5 (020), 4.5^{+0.1}_(.177^{+0.04}), $\phi 7$ (.276), $\phi 6.0$ (.256), C0.5 (.020)</p> <p>MOUNTING SURFACE</p>	<p>Dimensions: 12.5 (.492), 13.4 (.529), 13.2 (.520), 2PLCS 1.8^{+0.2}_(.071^{+0.08}), 2.1^{+0.2}_(.083^{+0.08}), 7.5 (295), 5.0 (197), $\phi 1.0$ (.039^{+0.04}), DIA 3PLCS</p> <p>Mounting hole details</p> <p>DIMENSIONS: MM (INCHES)</p>
<p>ED1223-□ P-□ C-□</p>	<p>Dimensions: 6.0 (236), 5.0 (197), 2.0 (079), 7.5 (295), 3.7 (146), 0.8 (031), 0.5 (020), 4.5^{+0.1}_(.177^{+0.04}), $\phi 7$ (.276), $\phi 6.0$ (.256), C0.5 (.020)</p> <p>MOUNTING SURFACE</p>	<p>Dimensions: 12.5 (.492), 13.4 (.529), 13.2 (.520), 2PLCS 1.8^{+0.2}_(.071^{+0.08}), 2.1^{+0.2}_(.083^{+0.08}), 7.5 (295), 5.0 (197), $\phi 1.0$ (.039^{+0.04}), DIA 3PLCS</p> <p>Mounting hole details</p> <p>DIMENSIONS: MM (INCHES)</p>
<p>ED1215-□ P-□ C-□</p>	<p>Dimensions: 5.0 (197), 5.0 (197), 10 (394), 3.5 (138), 1.9 (075), 2.4 (094), 5 (197), 2.5 (098), 0.8 (031), 0.5 (020), 4.5^{+0.1}_(.177^{+0.04}), $\phi 7$ (.276), $\phi 6.0$ (.256), C0.5 (.020)</p> <p>MOUNTING SURFACE</p>	<p>Dimensions: 12.5 (.492), 13.4 (.529), 10.8 (.425), 2.5 (098), 5.0 (197), 2PLCS 2.0^{+0.2}_(.071^{+0.08}), 2.1^{+0.2}_(.083^{+0.08}), 5.0 (197), $\phi 1.0$ (.039^{+0.04}), DIA 3PLCS</p> <p>Mounting hole details</p> <p>DIMENSIONS: MM (INCHES)</p>