



PCB LAYOUT

Shaft type	D=5					D=7					
	L	11	11.5	12	13.5	14	15	17	20	20	30
F Shaft	F	5	5	5	7	6	7	7	6.5	10	12

Shaft type	D=5					D=7				
	L	11.5	12.5	15	20	15.3	20	25	28	30
F Shaft	F	5	5	7	7	7	7	14	12	12

Electrical Characteristics
 Rated Power: DC5V 5mA Max.
 Output signal: A \ B 2signals
 Resolution: 12 Pulses 360° / 24 Pulses 360°
 Phase difference: 0.08T Min.
 Sliding noise: 3mS Max.
 Contact Resistance: 1Ω Max.
 Insulation resistance: 100MΩ Min. at DC 250V
 Withstand voltage: AC300V / 1min

Mechanical
 Total rotation angle: 360°
 Rotational Torque: 1kgf.cm Max
 Click Torque: 20~150 gf.cm
 Push-pull Strength of Shaft: 8.0kgf Min.
 Number of Detents: 12 detents Step angle: 30°±2°
 24 detents Step angle: 15°±2°
 Without detents

Rotational Life: 30000±200 cycles per 100gf.cm Min.
Temp. Range: -30 ° C ~ + 85 ° C
Soldering: 250 ° C 5Sec. Max.

Order Information:

L-KLS4-EC1204 S - B XX - XXX

Shaft type and Length Code

Pulse and Detent Code

- 6A: 12 Pulse with 12 Detents
- 6B: 12 Pulse without Detent
- 8A: 24 Pulse with 24 Detents
- 8B: 24 Pulse without Detent

Bushing:

<input checked="" type="checkbox"/>	B	C
<input type="checkbox"/>	D	5
<input type="checkbox"/>	K	2.5
<input type="checkbox"/>	S	2.6
<input type="checkbox"/>		2.1

RoHS
 12mm Encoder
 Switch: S - with switch

GENERAL TOLERANCE		ANGLE TOLERANCE		PROJECTION		Description:	
X. ±0.50	X. ±0.38	X. ±5°	X. ±3°	UNITS	mm	12MM Encoder Metal	
.XX ±0.25	.XX ±2°			SHEET SIZE	A4	shaft with Switch	
Draw by: Date		2015-09-01		KLS P/N:		KLS4-EC1204S-BXX-XXX	
Check by: Date		2015-09-15		SCALE		KLS ELECTRONIC CO., LTD.	
SCALE		SHEET		OF			