

PCB LAYOUT

Shaft type	D=5						D=7						
	L	9.5	13	15	17.5	20	L	15	17	17	20	20.5	
F Shaft	F	4.5	5	7	5	7	12	12	7	6	7	11.5	11.5

Shaft type	D=5						D=7					
	L	11	15	15	20	15.3	L	17.5	17.5	20	25	
T Shaft	F	5	7	7.5	7	7	6	8	7	7	16	

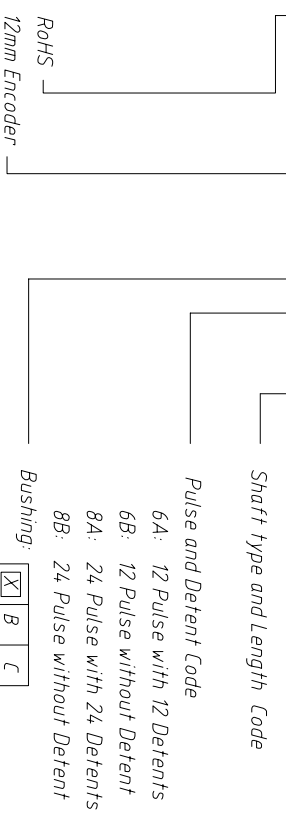
Shaft type	D=5					
	L	15	17.5	20	22.5	25
N Shaft	F	2.5	5	7	7	12

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 / 1 min

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-EC1201 - B XX- XXX



GENERAL TOLERANCE	ANGLE TOLERANCE	PROJECTION	Description:
X. ±0.50	X. ±5°	UNITS	12MM Encoder Metal shaft
.X ±0.38	.X ±3°	SHEET SIZE	
.XX ±0.25	.XX ±2°	KLS P/N:	

Draw by: Date	2015-09-01	KLS P/N:	KLS4-EC1201-BXX-XXX
Check by: Date	2015-09-15		
SCALE	SHEET	OF	

KLS ELECTRONIC CO., LTD.