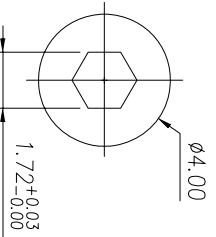


PCB LAYOUT



**Electrical Characteristics**  
 Rated Power: DC5V 5mA Max.  
 Output signal: A \ B 2signals  
 Resolution: 12 Pulses 360°  
 24 Pulses 360°  
 Phase difference: 4ms Min.  
 Sliding noise: 7ms Max.  
 Contact Resistance: 1Ω Max.  
 Insulation resistance: 1000MΩ Min. at DC 250V  
 Withstand voltage: AC300V / 1min

**Mechanical**  
 Total rotation angle: 360°  
 Rotational Torque: 30~200 gf·cm Max  
 Number of Detents: 24 detents Step angle: 15°±2°  
 12 detents Step angle: 30°±2°  
 Rotational Life: 10000±200 cycles  
 Temp. Range: -10 ° C ~ +70 ° C  
 Soldering: 230±5 ° C 5Sec. Max.

Order Information:  
 L-KLS4-EC1007 - XX  
 RoHS  
 10mm Encoder  
 Pulse and Detent Code  
 9A: 12 Pulse with 24 Detents  
 9B: 12 Pulse without Detent

GENERAL TOLERANCE	ANGLE TOLERANCE	PROJECTION	Description:
X: ±0.50	X: ±5°	mm	10mm Encoder
.X ±0.38	.X ±3°	A4	
.XX ±0.25	.XX ±2°	KLS P/N	KLS4-EC1007-XX
Draw by: Date	2017-09-01		
Check by: Date	2017-09-05		
SCALE	SHEET	OF	

KLS ELECTRONIC CO., LTD.