



PCB LAYOUT

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: 1 Ω 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.

Shaft type

Shaft type		D=5								D=7				
		L	9.5	13	15	17.5	20	22.5	25	30	15	17	17	20
F Shaft	F	4.5	5	7	5	7	7	12	12	7	6	7	11.5	11.5

Shaft type		D=5					D=7				
		L	11	15	15	20	15.3	17	17.5	20	25
T Shaft	F	5	7	7.5	7	7	6	8	7	16	

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

GENERAL TOLERANCE		ANGLE TOLERANCE		PROJECTION	Description:
X. ±0.50	.X ±0.38	.XX ±0.25	X. ±5°	.X ±3°	
Draw by: Date				2015-09-01	
Check by: Date				2015-09-15	
SCALE		SHEET		OF	

12MM Encoder Metal shaft