

# DATA SHEET

SUNGMUN CODE : E5A5-2.35S10-12B15-F200

DESCRIPTION : Encoder



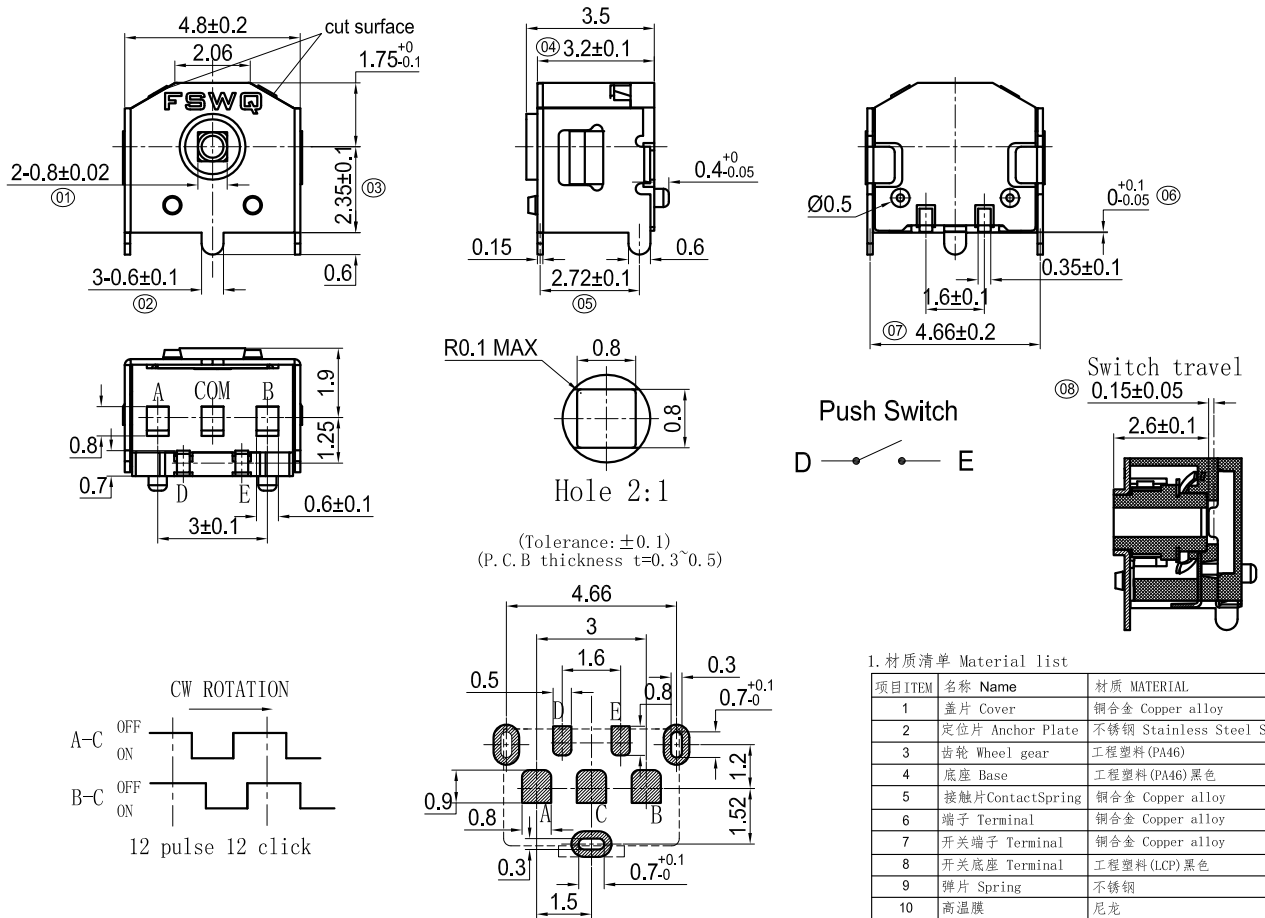
帝凡芯城  
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# F-SWITCH ELECTRONICS CO.,LTD.

名称 TITLE	ENCODER	料号 PART NO.	E5A5-2.35S10-12B15-F200	图号 DRAWING NO.	FSE5-WI-DR-010
规格 SPEC	SMT立式贴片型, 5×4mm带开关编码器, 安装高度2.35mm, 四方孔径0.8mm, 扭力10gf, 接力200gf, 12脉冲12定位, 标准齿感, 寿命10万次				

No.	Items	Standard	No.	Items	Standard
1(1.2)	Operating Temperature Range	-40°C to +85°C	18(6.1)	Solder Ability	245°C Max, 3S Max
2(1.3)	Operating Relative Humidity	≤85% RH	19(7.1)	Mechanical Life	100,000 cycles(30 t/min, Torque attenuation <30%)
3(3)	Ratings	DC 5V 0.5mA	20(7.2)	Electronics Life	100,000 cycles(30 t/min, Torque attenuation <30%)
4(4.1)	Contact Resistance	200mΩ Max(Initial status )	21(8.1)	Cold Proof	-40±2°C 96h
5(4.2)	Insulation Resistance	10MΩ Min.	22(8.2)	Hot Proof	85±2°C 96h
6(4.3)	Dielectric Voltage	AC50V · 60s	23(8.3)	Moisture Resistance	40±2°C · 90-95%RH 96h
7(4.4)	Output signal format	C.W., 12pulse/360°,A(A~C),B(B~C)	24(8.4)	Temperature Cycling	-40~85°C · change 5 cycles
(5.2)		C.C.W., 12pulse/360°,B(B~C),A(A~C)	25(8.5)	Salt Mist	5% Nacl 24h(Cut surface exemption)
8(4.4)	Phase-different	T1,T2,T3,T4 ≥ 4mS	26(8.6)	Vulcanization test	3% Na2s 3 minutes(Cut surface exemption)
9(4.5)	Chattering	t1,t3 ≤ 3mS	Dimensions:		
10(4.5)	Bounce	t2 ≤ 2mS	1	2-0.8±0.02	
11(5.1)	Detent points	12detent points,each angle:30°±3°	2	3-0.6±0.1	
12(5.3)	Rotational force	10±5gf.cm (Initial status )	3	2.35±0.1	
12(5.4)	Push switch force	200±50gf.cm (Initial status )	4	3.2±0.2	
12(5.5)	Push switch travel	0.15±0.05mm	5	2.72±0.1	
13(5.6)	Tooth Intensity Value	/	6	0.05 <sup>+0.1</sup>	
14(5.6)	Tooth sense consistency	/	7	4.66±0.2	
15(5.7)	Axial Swing Strength	1N, 60S	8	0.15±0.05	
16(5.8)	Terminal Strength	1N, 10S.			
17(6.2)	Solder Heat Resistance	SMT Soldering 245°C Max 3S Max, 230°C Min 30S Max			
	Manual Soldering	350°C Max, 3S Max			



VER.	内容 S.U.B.	修改 MODIFY	日期 DATE	公差 TOLERANCE	单位 UNIT	张数 SHEET	图幅 SIZE	图类 TYPE
10				L<5 ±0.2	mm	1/1	A4	成品图
				L<10 ±0.3		设计 DSGD	审核 CHKD.	核准 APPD.
				L<30 ±0.5	AI			
				.X° ±2° X.° ±5° 角法 P R O J . 5	比例 SCALE			
					12:1			