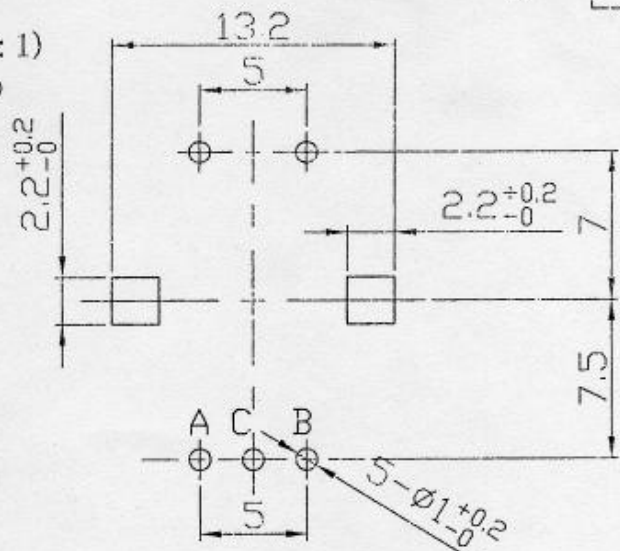
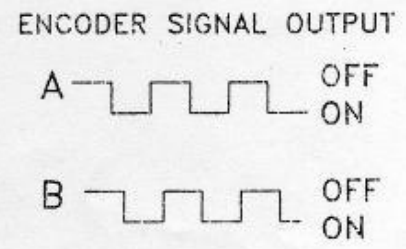


TERMINAL DETAIL (4:1)
端子先端详细图 (4:1)

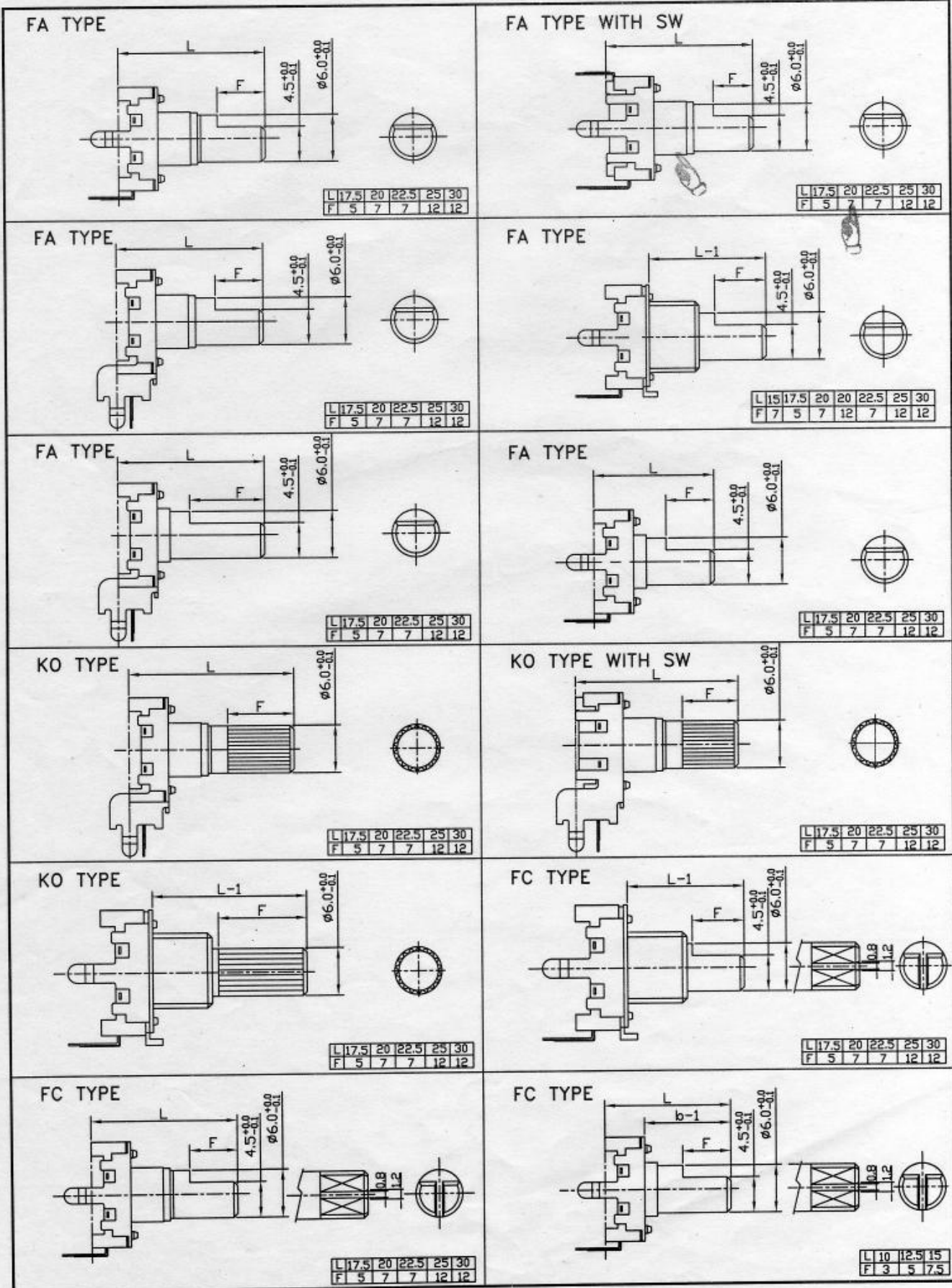


P. C. B. MOUNTING DETAIL



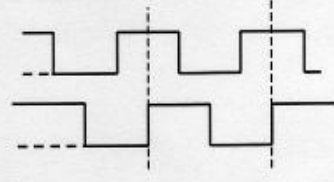










05	整理图纸	06-3-17	06		
01	更改型号	03-09-01	04	增加标志	06-01-15
00	ORIGINAL DRAWING	03-08-12	03	更改型号、图号及图面	04-05-12
ISSU.	REVISION	DATE	02	因客户要求更改尺寸	04-02-24
			TOL. UNLESS OTHERWISE SPEC.		
			BASIC DIMENSIONS	TOL.	
DSGD.	CHKD.	APPD.	L ≤ 10	±0.3	
	SCALE	2:1	10 < L	±0.5	
	UNIT	mm	100 ≤ L	±0.8	
			ANGLE	±5°	
			SOUNDWELL ELECTRONIC MODEL: EC121101XB-HA1		
			DRAWING NO: 121101XB02		第 页

EC12 SERIES SHAFT STYLE



EC12 SERIES SPECIFICATION

EC12 系列规格书

1 ELECTRICAL CHARACTERISTICS 电气特性																		
ITEMS 项目	SPECIFICATION 规格																	
1-1、Power Rating 额定功率	DC 5V 0.5mA																	
1-2、Insulation Resistance 绝缘阻抗	More then 10M Ω at DC 50V 1 Minute																	
1-3、Withstand Voltage 耐电压	1Minute at AC 50V																	
1-4、Sliding Noise 滑动杂讯	$\leq 3mS$ (Test conditions 测试条件: 360°/S) Using the C/R filter circuit is Recommended. 建议使用C/R滤波电路.																	
1-5、Resolution 分解能力	<input type="checkbox"/> 12、 <input type="checkbox"/> 18 <input checked="" type="checkbox"/> 24 Pulses/360° for each phase. 个脉冲/360°																	
1-6、Phase-Difference 相位差	$\Delta T = 0.25 \pm 0.17 T$																	
1-7、Output Signal And Rotational Direction 输出信号和旋转方向	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>CW direction 顺时针方向</p> <p>A Signal OFF ON</p> <p>B Signal OFF ON</p> </div>  </div>																	
1-8、Working Temperature 工作温度	-10°C ~ 70°C																	
1-9、Storage Temperature 储存温度	-40°C ~ 85°C																	
2 MECHANICAL CHARACTERISTICS 机械特性																		
2-1、Total Rotation Angle 全回转角度	360°																	
2-2、Rotation Torque 旋转力矩	30~200gf.cm. Shaft rotatable at -10°C ~ +5°C. 但在-10°C ~ +5°C轴能勉强能转动.																	
2-3、Shaft Push-Pull Strength 轴推拉强度	<input type="checkbox"/> With switch 5.1Kgf.cm <input type="checkbox"/> On without switch 10Kgf.cm <input checked="" type="checkbox"/> 带开关为5.1Kgf.cm <input type="checkbox"/> 不带开关为10Kgf.cm																	
2-4、Number and position Detent 定位点数及位置	<input type="checkbox"/> 12 detents (Step angle: 30° ± 3°) <input type="checkbox"/> 18 detents (Step angle: 20° ± 3°) <input checked="" type="checkbox"/> 24 detents (Step angle: 15° ± 3°)																	
2-5、Rotational life 回转寿命	30,000 Cycles Min. at a speed of 600 cycles/H 每小时600圈的速度测试.																	
2-6、Resistance to soldering heat 焊锡耐热性	Manual Soldering: Less than 300°C and quicker than 3 seconds. 手焊: 300°C 以下, 3秒以内.																	
3 PUSH-ON SWITCH SPECIFICATIONS 推动开关规格																		
3-1、Switch Circuit 开关电路	Single pole and single throw (push on) 单极单投 (推动)																	
3-2、Switch Travel (mm) 开关工作行程	0.5 ^{+0.4} / _{-0.3} mm																	
3-3、Switch Operating Force 开关作动力	300 ⁺²⁰⁰ / ₋₁₀₀ gf.																	
3-4、Switch Rating Power 开关额定功率	DC 5V 10mA (minimum ratings 最小功率: DC 5V 1mA)																	
3-5、Switch Contact Resistance 开关接触阻抗	First period 第一个周期: 100m Ω . 200m Ω after the end of useful life is reached. 在有效的寿命范围结束后200m Ω .																	
3-6、Switch Rotational Life 开关旋转寿命	20,000 Cycles . 500cycles/H, Shaft push load 1kg.cm Max. 按压力1kg以下, 500次/H																	
NOTE 注明: When the products without switch, the above 3 items must be cancelled. 当产品无带开关结构时, 以上3整项项目规格取消。																		
文控编号: EC-	编制时间	 SOUNDWELL ELECTRONIC																
版本号: 00	2006-8-28																	
变更记事:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DSGD 主办</td> <td style="width: 33%;">CHKD 审查</td> <td style="width: 33%;">APPD 核准</td> <td style="width: 33%;">Title: Encoder</td> </tr> <tr> <td style="text-align: center;">  陈洪全 </td> <td style="text-align: center;">  胡春萍 </td> <td style="text-align: center;">  郭志新 </td> <td style="text-align: center;">标题: 编码器</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">Document No.:</td> </tr> <tr> <td colspan="3"></td> <td style="text-align: center;">文件号: EC12-01</td> </tr> </table>	DSGD 主办	CHKD 审查	APPD 核准	Title: Encoder	 陈洪全	 胡春萍	 郭志新	标题: 编码器				Document No.:				文件号: EC12-01
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