

BARK系列 Seris

微型PCB式汽车继电器
Miniature PCB automobile relay



产品特点

- 超小型汽车继电器
Subminiature automobile relay
- 大功率汽车继电器
High power automobile relay
- 最大电流30A
Maximrm current 30A
- 可供密封型
Available for sealing
- 可供单继电器和双继电器
Single relay and dual relay available

触点负载	Contact Rating
触点形式 contact form	1A 1C/2A 2C
触点材料 contact material	银合金 AgSn02
额定负载(阻性) Rated load (Resistance)	NO/NC:25A/20A 14VDC
最大切换电压 Max. switching Voltage	30VDC
最大切换电流 Max. switching Current	30A
最大切换功率 Max. switching power	420W

备注: 备注: 1. 上述值为初始值
2. 对于塑封型产品试验时, 应打开外壳上的透气孔
1.remarks:The above values are initial values
2. When experimenting with plastic encapsulated products, the vent holes on the housing should be opened

典型用途

- 汽车控制盒、中央门锁。仪表控制、发动机控制
Artomobile control box, centraldoor lock, instrument control, engine control
- 自动门窗、雨刮控制、防盗系统、照明灯、闪光灯等。
Automatic door and window, wiper control, anti-theft system, lighting lamp, flash lamp, etc

性能参数Performance Parameter		
绝缘电阻Contact Resistance		100M Ω (500VDC)
吸合时间（额定电压下） Operate Time		≤4ms
释放时间（额定电压下） Release Time		≤4ms
介质耐压 Dielectric Strength	断开的触点间BOC	500VAC 50/60Hz 1分钟
	触点与线圈间BCC	500VAC 50/60Hz 1分钟
接触电阻 Initial contact resistance		≤100m Ω (1A 6VDC)
抗振动 Anti vibration		加速度6G 10Hz-500Hz
抗冲击 Shock resistance		加速度30G Min
寿命 life	机械寿命 Mechanical life	5,000,000次
	电气寿命 Electrical life	阻性负载：3000,000 20A 14VDC
		电机锁定：1000,000 20A 14VDC L=0.77mH
		灯负载（常开）：1000,000浪涌电流100A, 稳定电流10A
		伞光灯负载（常开）：1,000,000
环境温度 ambient temperature		-40℃~+105℃（不冷凝）
重量Weight		约4.0克(单继电器)；约8.0克(双继电器)

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线圈参数Coil Specification (at 23 °C)

额定电压 Nominal Voltage (VDC)	额定电流 Rated current (mA)	线圈电阻 Coil Resistanc e ($\Omega \pm 10\%$)	最大连续外加电压 Maximrm continuous applied voltage		吸合电压 Pull-In Voltage (Max)	释放电压 Drop-Out Voltage (Min)	额定功率 Rated power
			23°C	85°C			
5	110	45	11	65	2.9	0.6	约0.55W
6	95.24	63	13.2	7.8	3.5	0.8	
9	61.11	147	19.8	12	5.2	1.1	
12	47.24	261	26	16	6.9	1.5	
24	23.62	1047	53	31	15.6	3.0	
12	66.30	180	22	13	6.9	1.5	约0.8W

备注: 1. 上述值为初始值remarks:The above values are initial values

2. 最大电压是指继电器线圈在短时间内能够承受的最大值

The maximum voltage refers to the maximum value that the relay coil can withstand in a short time

订货标记Ordering Information

BARK	-	S	-	1	12	D	M	XX	特殊参数: 无: 标准型 Special parameters: None: Standard 字母或数字: 特殊要求 Letters or numbers: special requirements
									触点形式: M: 常开型 NO Contact form: 无: 转换型 IO
									线圈功耗: D: 0.55W / H: 0.8W Coil power: D: 1.6W / H: 0.8W
									线圈电压: 05: 5V, 06: 6V, 09: 9V, Coil oltage; 12: 12V, 24: 24V,
									触点组数: 1: 单继电器 2: 双继电器 Numbe of pole: 1: Single relay 2: Dual relay
									密封方式: S: 塑封式 SH: 防水式 Type of sealing: S: Plastic encapsulated SH: Waterproof type
									品名: BARK Model: BARK

备注:

1. 在洁净环境 (不含H₂S、SO₂、NO₂、粉尘等污染物) 下使用时, 推荐使用防焊剂型产品
2. 在污染焊剂 (含一定量的H₂S、SO₂、NO₂粉尘等污染物) 下使用时建议选用塑封产品, 并请在实际使用中进行确
3. 当继电器装入PCB版焊接后, 如需进行整体清洗或表面处理, 请与我司联系, 以便商定合适的焊接条件、合格的产品规格。

remarks:

- (1) When using in clean enbironment (without H₂S SO₂ NO₂ dust and other pollutants), it is recommended to Use flux resistant products. When using in polluted environ ment(with a certain amount of H₂S SO₂ NO₂dust and other pollutants), it is recom mended to use plastic encapsulated products.please confirm in actua
- (2) After the relay is installed into the PCB board for welding, if it needs overall cleaning or surface treatment, please Contact me to negotiate the appropriate welding conditions and product specifications.

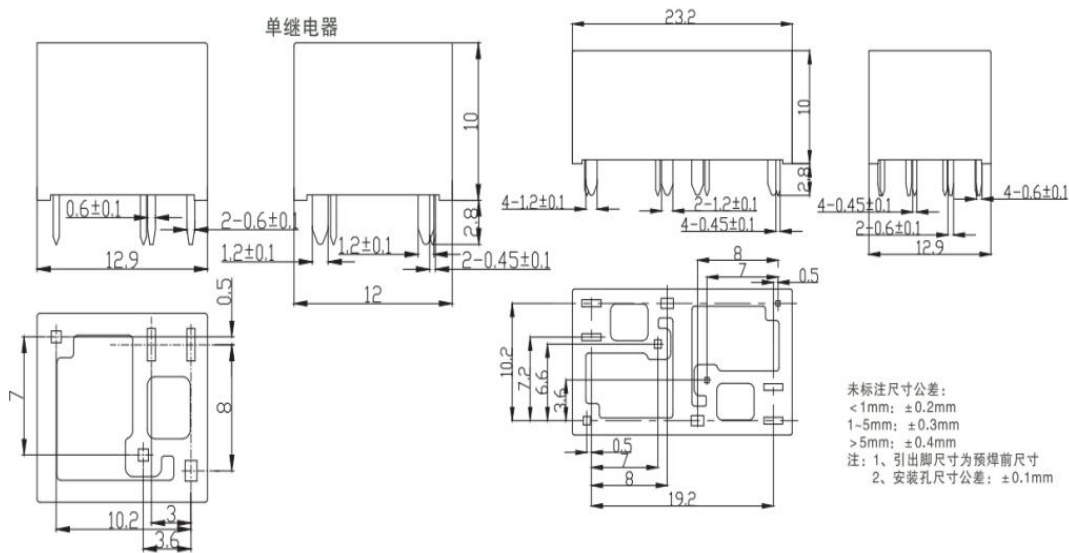
型号model	BARK			
线圈灵敏度 Coil sensitivity	标准直流线圈 Standare DC coil			
	1A	1C	2A	2C
防焊剂型 The flux type	BARK-SS-1□□DM	BARK-SS-1□□D	BARK-SS-2□□DM	BARK-SS-2□□D

外形尺寸、接线、安装孔位图

Overall dimension, wiring and installation hole bitmap

外形尺寸

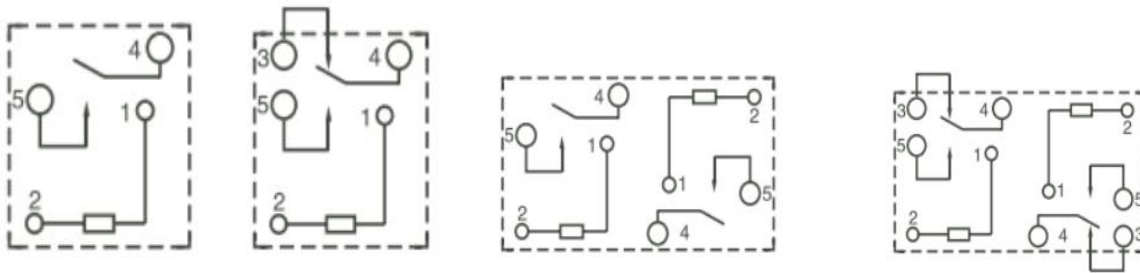
Outline Dimensions



接线图(底视图)

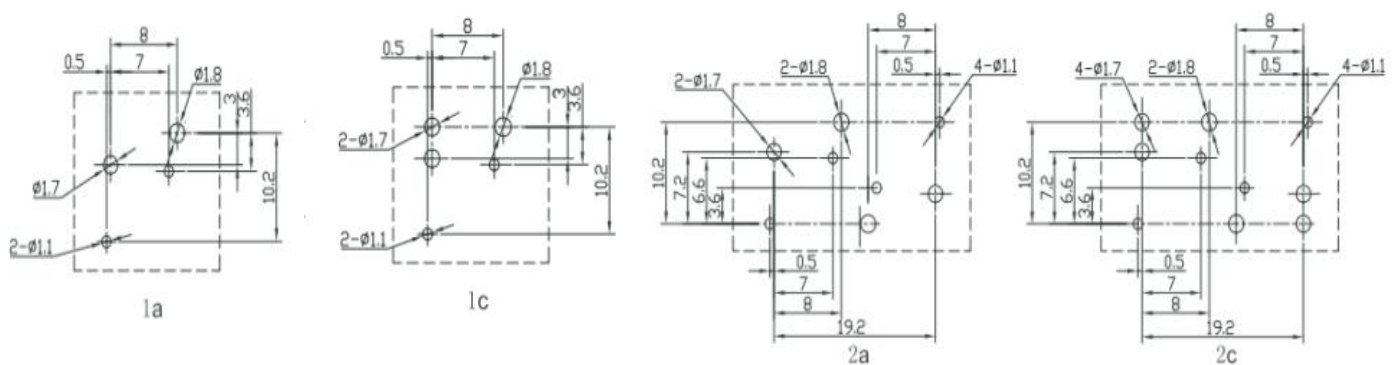
Wiring Diagram

(Bottom view)



安装孔位图(底视图)

PCB Layout (Bottom view)



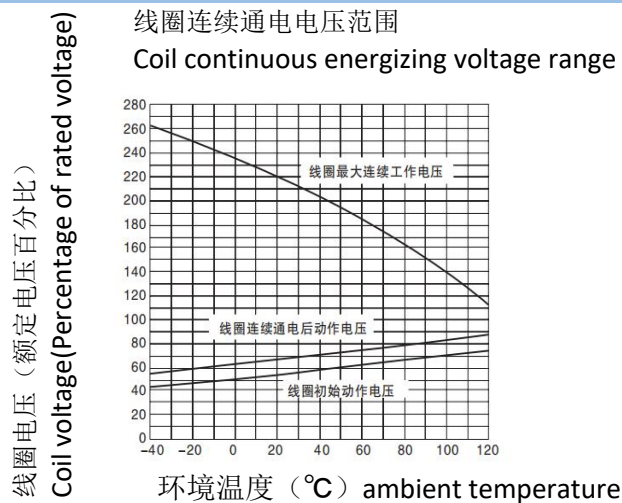
备注:

1. 产品外形图的引脚标注尺寸为沾锡前尺寸（沾锡后会变大），安装孔尺寸为推荐的PCB板孔的设计尺寸，具体PCB板孔设计尺寸可根据产品实物进行测绘、调整。
2. 产品部分外形尺寸未注尺寸公差，当外形尺寸 $\leq 1\text{mm}$ ，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $(1\sim 5)\text{mm}$ 之间时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ ，公差为 $\pm 0.4\text{mm}$
3. 安装孔尺寸中未注尺寸公差为 $\pm 0.1\text{mm}$

DISCLAIMER:

1. The pin dimension in the outline drawing or the product is the dimension before dipping tin (It gets bigger when stained with tin) The size of mounting hole is the recommended design size of PCB hole The specific PCB hole design size can be mapped and adjusted according to the actual product
2. The overall dimension of the product if not marked with dimensional tolerance, when the overall dimension $\leq 1\text{mm}$ Tolerance is $\pm 0.2\text{mm}$ When the overall dimension is $(1\sim 5)\text{mm}$ Between Tolerance is $\pm 0.3\text{mm}$ When the overall dimension $> 5\text{mm}$, Tolerance is $\pm 0.4\text{mm}$
3. The dimension tolerance of mounting hole without dimension injection is $\pm 0.1\text{mm}$

性能曲线图



备注:

- 具体参数型号和产品性能以我司承认书为准，本产品规格书仅作参考，若有更改，恕不另行通知。
- 对科信而言，不可能评定继电器在每个具体应用领域的所有性能参数要求，因而客户应该根据具体的使用条件，选择与之相匹配的产品。若有疑问，请与科信联系 以便获取更多的技术支持。但产品选型责任仅由客户负责。

DISCLAIMER:

The specific parameters, models, and product performance shall be subject to our company's acceptance letter. This product specification sheet is for reference only and is subject to change without prior notice

For AFE, it is not possible to assess all performance requirements for relays in each specific application area and therefore the customer should select a suitable product for each specific application, please contact AFE for additional technical support. But the responsibility of product selection is only the responsibility of the customer.