

# G7J

## 超小型功率继电器

## Miniature PCB Power Relay



- 线圈与触点间抗浪涌电压10kV 10KV impulse withstand voltage( between coil and contacts).
- 5A、7A 触点切换能力 5A rating and 7A rating switching capability
- 塑封型和防焊剂型可供选择 Flux proof or sealed type available
- UL级绝缘等级,F级 UL insulation system: Class F available
- 外形尺寸 Outline dimensions: (20.5 x 7.2 x 15.3) mm

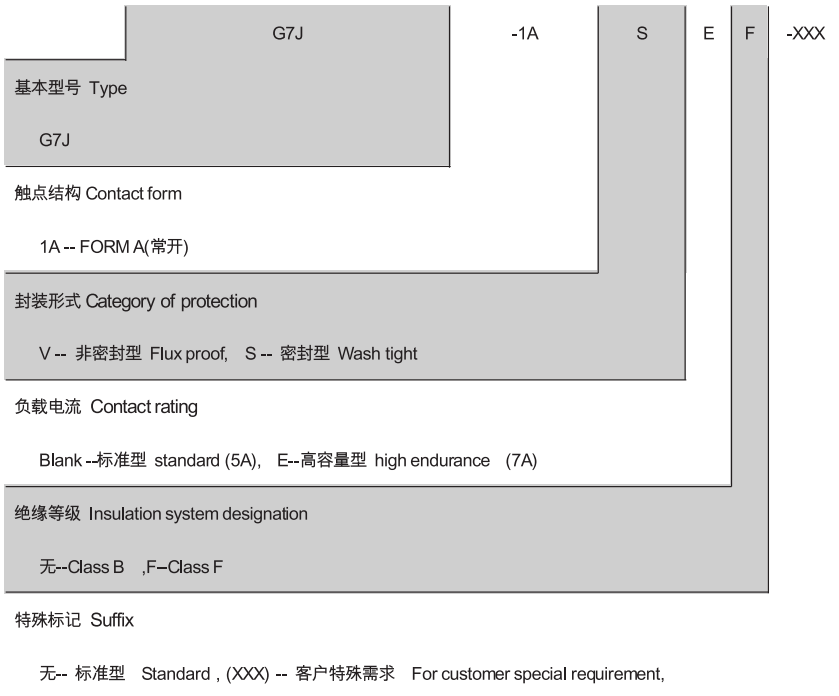


### 用途举例 Application Examples



- 控制设备的输出用途(家电、热水器、冰箱、空调等)
- Apply to output control of equipment( home appliance 、 water heater、 refrigerators 、 Air conditioners etc.)

### 型号命名标准 Product Code Structure



### 线圈参数 Coil Data(DC)

额定电压 Rated voltage (V)	额定电流 Rated current (mA)	线圈电阻 Coil resistance (Ω)	吸合电压 Operate voltage	释放电压 Release voltage	最大允许电压 Max release voltage	额定功耗 Rated coil power
			额定电压的 % of rated voltage			
3	66.6	45	75% Max	5% Min	130%	Approx. 200mW
5	40	125				
6	33.3	180				
9	22.2	405				
12	16.7	720				
18	11.1	1620				
24	8.3	2,880				

注：额定电流和线圈电阻是在线圈温度23℃，公差为 1 0%  
Note. The rated current and coil resistance are measured at a coil temperature of 23 °C with a tolerance of 1 0%

### 触点参数 Contact Data

额定电压 Rated voltage (V)	额定电流 Rated current (mA)	线圈电阻 Coil resistance (Ω)	吸合电压 Operate voltage	释放电压 Release voltage	最大允许电压 Max release voltage	额定功耗 Rated coil power
			额定电压的 % of rated voltage			
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### 性能参数 Characteristics

吸合时间 Operate time		≤10ms
释放时间 Release time		≤10ms
绝缘电阻 Insulation resistance		1000MΩ以上 ( 500VDC )
介质耐压 Initial dielectric strength	线圈触点间 between contact and coil	AC4000V 50/60Hz 1min
	开路触点间 Between open contacts	AV750V 50/60Hz 1min
振动 Vibration resistance		10~55~10Hz (双振幅1.5mm)(double amplitude1.5mm )
冲击 Shock resistance	稳定性 Functional	100m/S <sup>2</sup> ( 10G )
	强度 Destructive	1000m/S <sup>2</sup> ( 100G )
温度范围 Ambient operating temperature		-40°C~ +85 °C
湿度范围 Ambient operating humidity		20-85%RH
引出端形式 Termination		PCB
重量 Weight		约3g

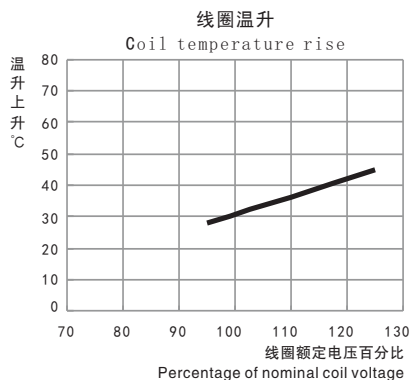
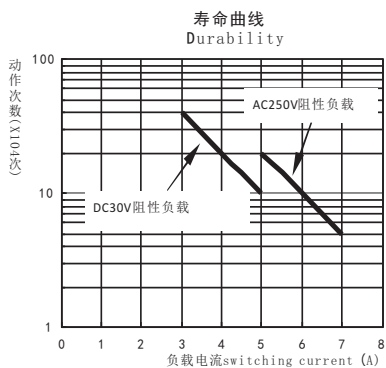
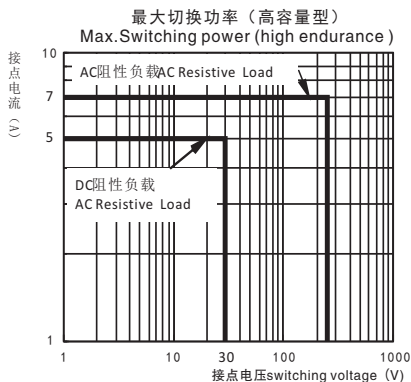
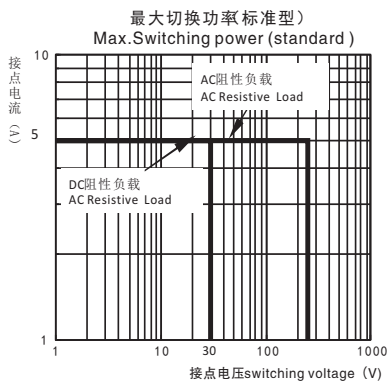
### 安规认证额定值 Standards Certified

型号 Type	触点结构 Contact form	线圈额定值 Coil ratings	接点额定 Contact ratings	试验次数 Number of test operations
UL	1A	3 ~ 24V DC	5A 250V AC 85°C ( Resistive )	100,000 次
CQC			5A 250 AC ( Resistive )	
TUV			5A 250 AC,30 DC ( Resistive )	

### 国际标准规格认证 Approved Standards

安规种类 Standards Certified	UL/C-UL	TUV	CQC
认证号 File No.	E322305	R50175987	CQC18002190314

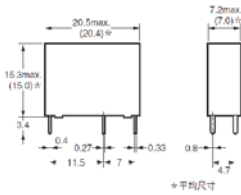
## 性能曲线 Engineering Data



**外形图、接线图、安装孔尺寸** Outline dimensions、PCB Layout、Wiring Diagram (mm)

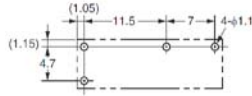
外形图

Outline dimensions



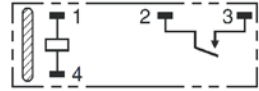
安装孔 (底部视图)

PCB Layout(Bottom View)



接线图

Wiring Diagram



未注尺寸公差 dimension tolerance

<1mm: +0.2 mm, 1~5 mm: 0 .3mm, >5mm: 0 .4mm

注: 安装孔尺寸中未注尺寸公差为+0.1 mm Note . dimension tolerance of the mounting hole +0.1 mm

**使用注意事项 Precautions**

- 一般的注意事项请参考“印刷基板用继电器共通注意事项”。
- Please refer to “PCB Relays Common Precautions” for correct use.