QLRELAY®

www.qlrelay.com

Automotive Relay Series汽车继电器系列 -- JQX-V7H

FEATURES特点

- Up to 80A contact switching capability
  高达80A触点切换能力
- Plastic and flux proof are available
  塑封型和防焊剂型可供选择
- Magnetic arc blowing technology
  磁吹弧技术
- Special flow guiding structure, which can instantly pass 800A current after the contact is attracted
  特殊的导流结构，吸合后瞬时电流可通过800A
- Outline dimensions (26.4X26.4X24.8) mm.
  外形尺寸（26.4X26.4X24.8）mm。



CONTACT PARAMETERS触点参数(at23℃)

Contact Form触点形式	A-1组常开
Rating Load(Resistive)额定负载（阻性）	1.6W: 80A 50VDC 50A 80VDC 40A 110VDC 2.0W: 100A 80VDC 50A 120VDC
Max. Switching Current最大切换电流	100A
Max.Switching Voltage最大切换电压	110VDC
Max.Switching Power最大切换功率	4000W/8000W

CHARACTERISTICS性能参数

Contact Materials触点材料	Ag Alloy银合金	
Contact Resistance接触电阻	100mΩ Max.	
Operate Time吸合时间	10msec.Max.	
Release Time释放时间	7msec.Max.	
Insulation Resistance绝缘电阻	100MΩ Min.(DC500V)	
Initial Dielectric Strength介质耐压	Between open contacts: 触点与触点间：	AC750V, 50/60Hz 1Min.
	Between contacts and coil: 触点与线圈间：	AC750V, 50/60Hz 1Min.
Vibration Resistance抗振动	Damage limits: 耐久：	10～55Hz Double Amplitude双振幅3.0mm
	Malfunction: 误动作：	10～55Hz Double Amplitude双振幅3.0mm
Shock Resistance抗冲击	Damage limits: 耐久：	18G Min.
	Malfunction: 误动作：	100G Min.
Life寿命	Mechanical Life (18000per hour) 机械寿命（每小时18000次）	1×10^7
	Electrical Life 电气寿命 (阻性负载 Resistive Load) (ON:OFF 1S:9S 23℃ 不封气孔)	1.6W: 80A 50VDC $5x10^4$ 50A 80VDC $3x10^4$ 40A 110VDC $3x10^4$ 2.0W: 100A 80VDC $1x10^4$ 50A 120VDC $2x10^4$
Ambient Temperature环境温度	-40℃～+105℃（No condensation）（不冷凝）	
Unit Weight单位重量	约 30.0g	

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COIL RATINGS (at23°C) 线圈参数 (在23°C)

额定电压	动作电压	释放电压	最大线圈电压(1)	额定电流	线圈电阻
VDC	VDC	VDC	VDC	×(1±10%) mA	×(1±10%) Ω
12	≤7.2	≥1.2	20.2	133.3	90
24	≤14.4	≥2.4	40.5	66.7	360
48	≤28.8	≥4.8	81	33.3	1440
72	≤43.2	≥7.2	121.2	22.2	3240

保持电压	40%~100%UN (环境温度25°C) 50% ~60%UN (环境温度85°C)

备注：1.线圈额定功率约1.6W，其它线圈功耗请联络业务。2.(1)最大电压是指继电器线圈在短时间内能够承受的最大值。
3.线圈保持电压为线圈施加额定电压500ms以上的线圈电压。

ORDERING INFORMATION订货标记

JQX-V7H 012 - 1 H P F R N (XXX)
1 2 3 4 5 6 7 8 9

1.Model Number基本型号 JQX-V7H

2.Coil Voltage线圈规格 (VDC)：DC12V, DC24V

3.Number of Pole: 1 : Single pole
开关型式： 1 — 一组开关

4.Contact form: H -1Form A
触点形式： H -1组常开

5.Induces foot position: P - PCB Board Terminal
Nil - Solder Lug Terminal
引出脚形式： PCB—PCB引脚 无—快捷端子引脚

6.Bracket: Nil- No Bracket Standard F - Metal Bracket
支架类型： 无—无支架型 F—铁支架

7.Options: Nil-Standard R-Coil paralel resistor
D1/D2 - Coil paralel Diode (详见元件表)
支架类型：无—标准型 R—线圈并联电阻 D1/D2-线圈并联二极管

8.Coil Power: 无 - 1.6W，N - 2.0W
线圈功率：无 - 1.6W，N - 2.0W

9.Customer Special Code :XXX- Customer Special Requirements
No - Standard Type
客户特性号：XXX-客户特殊要求，无-标准型

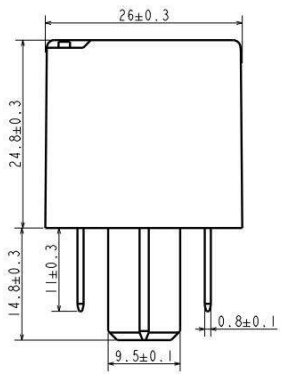
LIST OF RESISTANCE COMPONENTS电阻元件使用类表

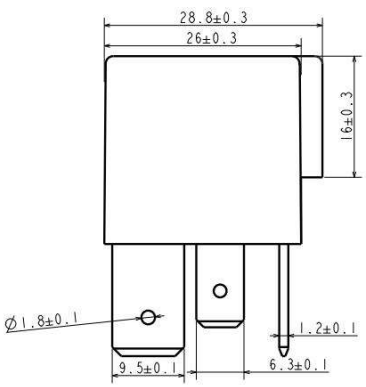
线圈电压 (VDC)	电阻(Ω)		
	R	R1	R2
12	680	560	470
24	2700	1200	1000

并联二极管	D1	D2
正极脚位	85	86
负极脚位	86	85

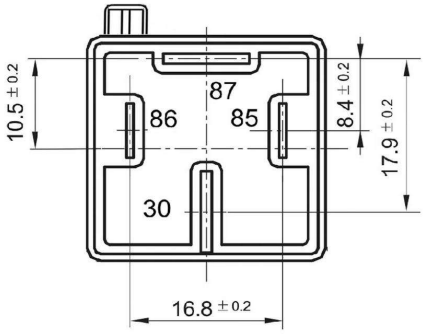
OUTLINE DIMENSIONS (UNIT:mm)外形尺寸 (单位：mm)

QC Outline drawing
插座式外形图

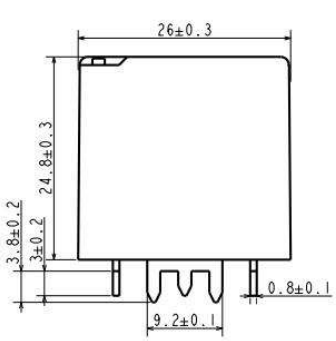


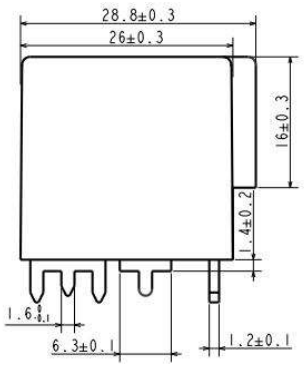


QC bottom view
插座式底视图

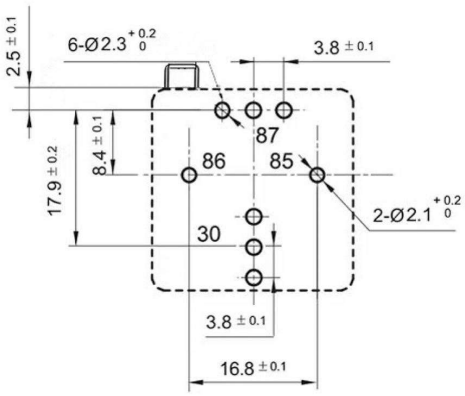


PCB Outline drawing
PCB式外形图





PCB bottom view
PCB式底视图



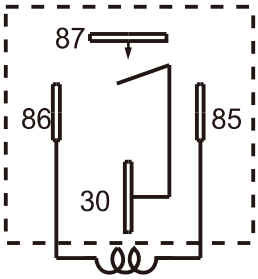
Undimensioned tolerance: ＜1mm：±0.2mm 1~5mm：±0.3mm ＞5mm：±0.4mm
未标注尺寸公差：＜1mm：±0.2mm 1~5mm：±0.3mm ＞5mm：±0.4mm

Note: 1.The size of the lead foot is pre welding dimension.
2.installation hole size tolerance: + 0.1mm

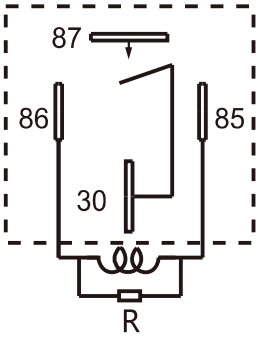
注：1、引出脚尺寸为预焊前尺寸
2、安装孔尺寸公差：±0.1mm

Wiring diagram
接线图

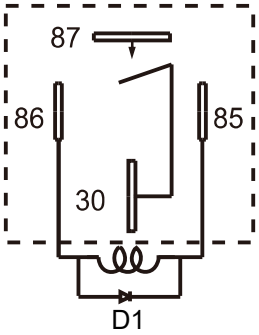
Routine
常规



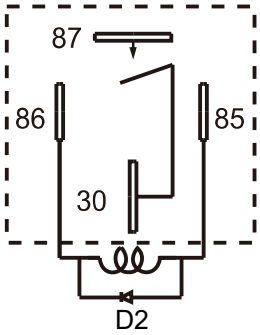
Add resistance
加电阻



Add diode+85
加二极管+85



Add diode+86
加二极管+86



备注：接负载时30脚接负极，87接正极。
Note: When connecting the load, pin 30 is connected to the negative pole, and pins 87are connected to the positive pole.