



Relays & Solenoids

Takamisawa PCB Relays

Detailed product specifications are available on: us.100y.com.tw



FEATURES

- Ultra high sensitivity
- UL, CSA recognized
- Conforms to FCC rules and regulations Part 68
—Surge strength 1,500 V
- High dielectric strength type available (RY-WF type)
- Contact arrangement MBB type available (RY-D type)
- High reliability-bifurcated contacts
- Wide operating range
- DIL pitch terminals
- Plastic sealed type



SPECIFICATIONS

Contact

Arrangement: 2 form C (DPDT)
 Material: Gold overlay silver-palladium
 Style: Bifurcated
 Resistance (initial): Maximum 100 m (at 1 A 6 VDC)
 Maximum Carrying Current: 1.25 A
 Rating: 1 A 24 VD 0.5 A 120 VAC
 Maximum Switching Power: 60 VA/24 W
 Maximum Switching Voltage: 120 VAC, 60 VDC
 Maximum Switching Current: 1 A
 Minimum Switching Load*1: 0.01 mA 10 mVDC
 Capacitance: Approx. 0.9 pF (between open contacts)
 1.4 pF (adjacent contacts)
 Approx. 1.9 pF (between coil and contacts)

Coil

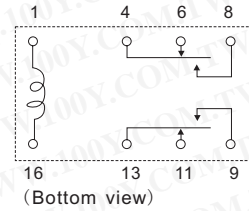
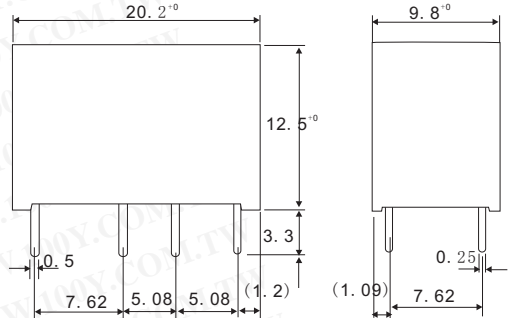
Nominal Power (at 20°C): 0.15 to 0.30 W
 Operate Power (at 20°C): 0.075 to 0.14 W
 Operating Temperature (No frost): -30°C to +90°C

Time Value

Operate (at nominal voltage): Maximum 6 ms
 Release (at nominal voltage): Maximum 3 ms

Life

Mechanical: 2×10^7 ops. Min.
 Electrical (at contact rating): 2×10^5 ops. min. (0.5 A 120 VAC)
 5×10^5 ops. min. (1 A 24 VDC)



Other

Weight: Approximately 5 g
 Vibration Resistance
 Misoperation: 10 to 55 Hz
 (double amplitude of 1.5 mm)
 Endurance: 10 to 55 Hz
 (double amplitude of 4.5 mm)

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Contact Arrangement	Contact Rating	Outline L*W*H	Recognized Safety	Type
14755	RY-12W-K-UL	TAKAMISAWA	Takamisawa_RY12W-K PCB Relays	12Vdc	2 Form C	1A 24VDC, 0.5A120VAC	20.0*9.8*12.0	UL,CSA	RY
36637	RY-18W-K	TAKAMISAWA	Takamisawa_RY18W-K PCB Relay	18Vdc	2 Form C	1A 24VDC, 0.5A120VAC	20.0*9.8*12.0	UL,CSA	RY
14756	RY-24W-K-UL	TAKAMISAWA	Takamisawa_RY24W-K PCB Relays	24Vdc	2 Form C	1A 24VDC, 0.5A120VAC	9.8 x 20.2 x 12.5mm	UL,CSA	RY
36634	RY-4.5W-K	TAKAMISAWA	Takamisawa_RY4.5W-K PCB Relay	4.5Vdc	2 Form C	1A 24VDC, 0.5A120VAC	20.0*9.8*12.0	UL,CSA	RY
36638	RY-48W-K	TAKAMISAWA	Takamisawa_RY48W-K PCB RELAY	48Vdc	2 Form C	1A 24VDC, 0.5A120VAC	20.0*9.8*12.0	UL,CSA	
14754	RY-5W-K-UL	TAKAMISAWA	Takamisawa_RY5W-K PCB Relays	5Vdc	2 Form C	1A 24VDC, 0.5A120VAC	20.0*9.8*12.0	UL,CSA	RY
36635	RY-6W-K	TAKAMISAWA	Takamisawa_RY6W-K PCBRELAY	6Vdc	2 Form C	1A 24VDC, 0.5A120VAC	20.0*9.8*12.0	UL,CSA	
37259	RY-9W-K	TAKAMISAWA	TAKAMISAWA_RY9W-K RELAY	9V	2 FROM C	0.5A 120VAC/1A 24VDC	14.0*9.0*5.0	UL,CSA	RY
36636	RY-9W-K	TAKAMISAWA	Takamisawa_RY9W-K PCB RELAY	9Vdc	2 Form C	1A 24VDC, 0.5A120VAC	20.0*9.8*12.0	UL,CSA	
37291	RY12W-K	TAKAMISAWA	TAKAMISAWA_RY12W-K Relay	12V	2 FROM C	0.5A 120VAC/1A 24VDC	14.0*9.0*5.0	UL,CSA	RY
37293	RY24W-K	TAKAMISAWA	TAKAMISAWA_RY24W-K RELAY	24V	2 FROM C	0.5A 120VAC/1A 24VDC	14.0*9.0*5.0	UL,CSA	RY



FEATURES

- Very small size and light weight
- UL,CS Arecognized
- Conforms to FCC rules and regulation spart 68
—Dielectric strength 1000VAC between coil and contacts
—Surge strength 1500V
- High sensitivity
- Wide ambient temperature range (-30°C to +90°C)
- Wide operating range
- DIL pitch terminals
- Plastic sealed type
- Dial-pulse relay available(10pps,20pps)
- RoHS compliant since date code:0519
Please see page 5 for more information



SPECIFICATIONS

Contact

Arrangement: 1 form C (SPDT)
 Material: Gold overlay silver alloy
 Resistance (initial) : Maximum 100 mΩ (at 1 A 6 VDC)
 Rating(resistive): 0.5A 120VAC or 1A 24VDC
 Maximum Carrying Current: 2A
 Maximum Switching Power: 60AV,24W
 Maximum Switching Voltage: 120VAC/60VDC
 Maximum Switching Current: 1A
 Capacitance(at0MHz): Approximately 1.4 pF (betweenopencontacts)
 Approximately 5.0 pF (betweencoilandcontacts)

Coil

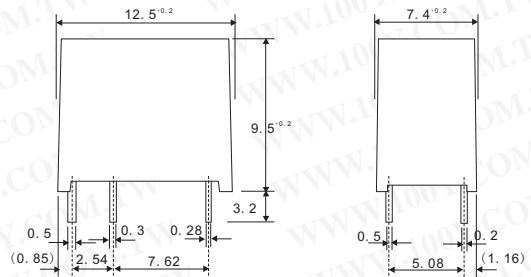
NominalPower(at 20°C):0.15 to 0.175W
 OperatePower(at 20°C):0.075 to 0.086W
 Operating Temperature : -30°C to +90°C (no frost)/18 V coil: +85°C, 24 V coil: +80°C

Time Value:

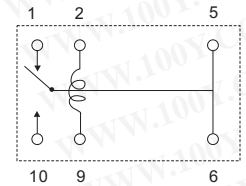
Operate (at nominal voltage): Maximum 5 ms
 Release(at nominal voltage): Maximum 2 ms

Life

Mechanical: 5×10^5 operations minimum



(Bottom view)



Other

Weight: Approximately: 1.7 g
 Vibration Resistance:
 Misoperation: 10 to 55Hz(double amp-
 litude of 1.5mm)
 Endurance: 10 to 55Hz(double ampli-
 tude of 1.5mm)

Part No.	Product No.	Manufacturer	Description	Coil Voltage	Contact Arrangement	Contact Rating	Outline L*W*H	Recognized Safety	Type
37295	SY-12-K	TAKAMISAWA	TAKAMISAWA_SY12-K Single Relay	12V	1 FROM C	120VAC/1A 24VDC	12.7*7.6*9.7	UL,CSA	SY
44036	SY-12W-K	TAKAMISAWA	TAKAMISAWA_SY12-K RELAY	12V	1 FROM C	0.5A 120VAC/1A 24VDC	12.7*7.6*9.7	UL,CSA	SY
37153	SY-24-K	TAKAMISAWA	TAKAMISAWA_SY24-K Signal Relay	1500V	1 FORM C	0.5A 120VAC 1A 24VAC	7.4 x 12.5 x 9.5mm	UL,CSA	SY
37690	SY-5-K	TAKAMISAWA	TAKAMISAWA_SY5-K Single Relay	5V	1 FROM C	0.5A 120VAC/1A 24VDC	12.7*7.6*9.7	UL,CSA	SY
37691	SY-9-K	TAKAMISAWA	TAKAMISAWA_SY9-K Single Relay	9V	1 FROM C	0.5A 120VAC/1A 24VDC	12.7*7.6*9.7	UL,CSA	SY

