

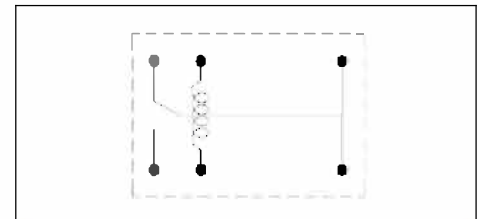
RSA Signal Relay

- 1 Form C
- Rated current: 1 A
- 150 mW sensitive coil
- Dielectric strength between coil & contact: 1,000 VAC
- Class F coil



RSA

1 Form C, 1 A



Technical parameters

Coil data		
Coil input voltage		3/5/6/9/12/24 V DC
Coil power		D Type: 200 mW, L Type: 150 mW
Response voltage		< 80% (Room temp.)
Drop out voltage		> 10% (Room temp.)
Operation time / Release time		Less than 5 ms / less than 5 ms
Contact data		
Contact numbers		1 Form C
Contact material		Ag alloy
Max. switching voltage		125 V AC
Max. switching power		62.5 VA
Contact ratings		0.5 A 125 V AC, 1 A 24 V DC
Contact resistance		Max. 100 mΩ (1 A / 6 V DC)
Mechanical service life		1×10 ⁷ times
Electrical Service life	AC1	1×10 ⁵ times
General data		
Rated withstand impulse voltage	Coil / Contact	1 kV AC / 1 min
	Between contacts	400 V AC / 1 min
Surge voltage		-
Insulation Resistance		1,000 MΩ (500 V DC)
Vibration		Malfunction 10~55 Hz (Amplitude 1.5 mm) Endurance 10~55 Hz (Amplitude 1.5 mm)
Shock		Malfunction 98 m/s ² , Endurance 980 m/s ²
Ambient temperature (Operation)		-30~70 °C (No condensation)
Operating humidity		35~85%
Dimension L×W×H (mm)		12.6×7.6×10.0
Enclosure type		Flux-proof, sealed
Mounting		PCB
Weight (g)		2.2
Compliance certification number		cULus:E341569

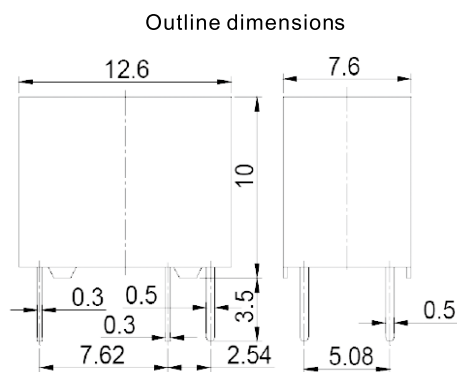
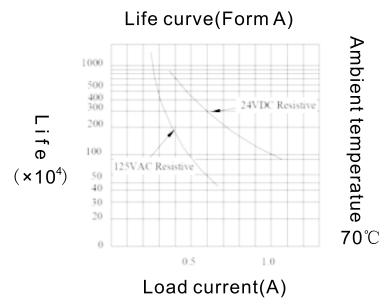
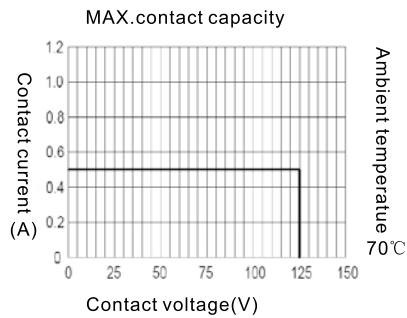
Type designation

Model designation	Number of poles	Coil voltage	Coil power	Contact configuration	Insulation class	Enclosure type	Special request
RSA	-1	12	D	*	F	-S	-XXX
RSA	1: 1 pole	03: 3 V 05: 5 V 06: 6 V 09: 9 V 12: 12 V 24: 24 V	D: 200 mW L: 150 mW	Blank: 1 Form C	Blank: class A F: class F	Blank: Standard S: sealed	

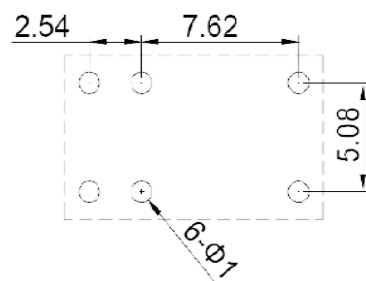
Coil rating								
Rated voltage (VDC)	Rated current (mA)		Coil resistance ($\Omega \pm 10\%$)		Operating power (mW)		Operating voltage (VDC)	Release voltage (VDC)
	L type	D type	L type	D type	L type	D type		
3	50.0	66.7	60	45	150	200	≤ 2.40	≥ 0.30
5	29.9	40.0	167	125	150	200	≤ 4.00	≥ 0.50
6	25.0	33.3	240	180	150	200	≤ 4.80	≥ 0.60
9	16.7	22.2	540	405	150	200	≤ 7.20	≥ 0.90
12	12.5	16.6	960	720	150	200	≤ 9.60	≥ 1.20
24	6.3	8.3	3,840	2,880	150	200	≤ 19.20	≥ 2.40

SSA approval rating			
cULus			
0.5A/125VAC	70 °C	100,000ops	
1A/24VDC	70 °C	100,000ops	

MAX. allowable coil voltage: 130% of rated coil voltage (Room temperature)



PCB board layout (Bottom view)



Tolerance	
Outline dimension	
<1mm	$\pm 0.2\text{mm}$
1~5mm	$\pm 0.3\text{mm}$
>5mm	$\pm 0.4\text{mm}$
PCB board layout	
Pitch-row	$\pm 0.1\text{mm}$
Aperture	$+0.1\text{mm}$