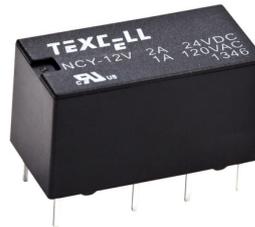


Subminiature DIP Relay	NCY
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Features

- 2 Form C (DPDT) configuration
- Surge strength 1500V FCC68
 - Clearance more than 1.2mm between coil and contacts
 - Creepage more than 1.9mm between coil and contacts
- Bifurcated contacts



cULUS
(File No.:E122258)

1. COIL DATA (at 20°C)

1) Sensitive Type

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max Allowable Voltage (VDC)	Coil Current (mA)(±10%)	Coil Resistance (Ω)	Coil Power (mW)
3	2.25	0.3	3.90	66.7	45 x (1±10%)	200
5	3.75	0.5	6.50	40.0	125 x (1±10%)	
6	4.50	0.6	7.80	33.3	180 x (1±10%)	
9	6.80	0.9	11.7	22.2	405 x (1±10%)	
12	9.00	1.2	15.6	16.7	720 x (1±10%)	
24	18.0	2.4	31.2	8.33	2880 x (1±10%)	
48	36.0	4.8	62.4	7.50	6400 x (1±15%)	360

2) High Sensitive Type

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max Allowable Voltage (VDC)	Coil Current (mA)(±10%)	Coil Resistance (Ω)	Coil Power (mW)
3	2.4	0.3	3.90	50.0	60 x (1±10%)	150
5	4.0	0.5	6.50	30.0	167 x (1±10%)	
6	4.8	0.6	7.80	25.0	240 x (1±10%)	
9	7.2	0.9	11.7	16.7	540 x (1±10%)	
12	9.6	1.2	15.6	12.5	960 x (1±10%)	
24	18	2.4	31.2	6.25	3840 x (1±10%)	

2. CONTACT DATA

Contact Arrangement	2 Form C (DPDT)	
Contact Resistance	100mΩ max. (at 1A 6VDC)	
Contact Material	AgNi + Au plated	
Load	Resistive load (COSΦ=1)	
Contact Ratings (Resistive Load)	1A 120VAC / 2A 24VDC	
Minimum Load	1mA 5VDC	
Max. Switching Voltage	240VAC / 60VDC	
Max. Switching Current	2A	
Max. Switching Power	120VA / 60W	
Life Expectancy	Electrical	100,000 operations (at 30 operations/minute)
	Mechanical	10,000,000 operations (at 300 operations/minute)

3. CHARACTERISTICS

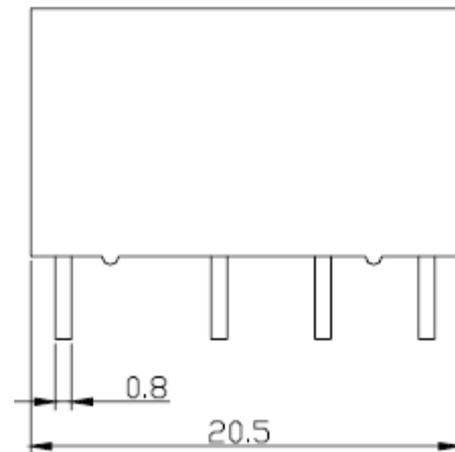
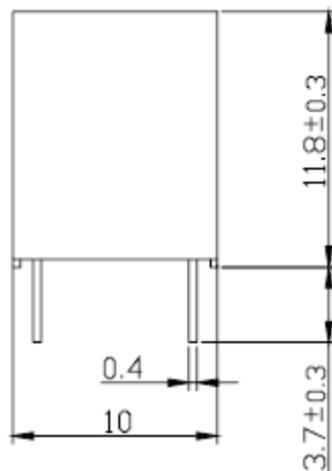
Insulation Resistance		100MΩ Min. (at 500VDC)
Dielectric Strength	Open Contacts	500VAC 1mm
	Contacts and Coil	1000VAC 1min
Operate Time (at nominal voltage)		6ms max.
Release Time (at nominal voltage)		4ms max.
Temperature Range		-30°C ~ 70°C
Shock Resistance	Operation Extremes	10G
	Damage Limits	50G
Vibration Resistance		10 ~ 55Hz, 1.5mm
Max. switching frequency	Mechanical	18,000 operations/hr
	Electrical	1,800 operations/hr
Humidity		40 ~ 85% RH
Termination		PCB (DIP)
Weight		Approx. 5g
Outline Dimension (L x W x H)		20.5 x 10.0 x 11.8 mm

4. ORDERING INFORMATION

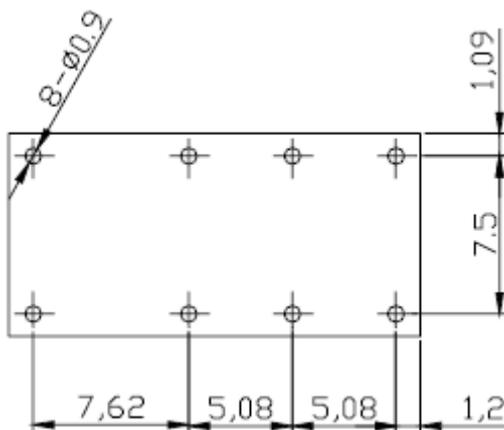
<u>NCY</u> ①	-	<u>5V</u> ②	<u>H</u> ③
① Relay Model	NCY		
② Coil Voltage	3V=3VDC, 5V=5VDC, 6V=6VDC, 9V=9VDC, 12V=12VDC, 15V=15VDC, 24V=24VDC, 48V=48VDC		
③ Coil Power	Nil: Sensitive type (200mW) H: High-sensitive type (150mW)		

5. DIMENSIONS (Unit: mm)

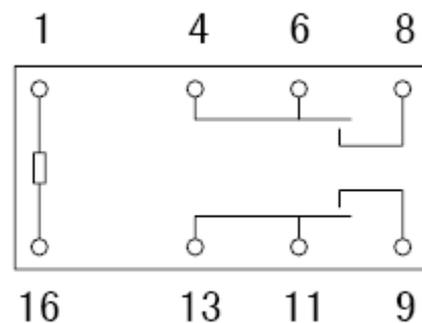
Outline Dimensions



PCB Layout
(Bottom View)



Wiring Diagram
(Bottom View)



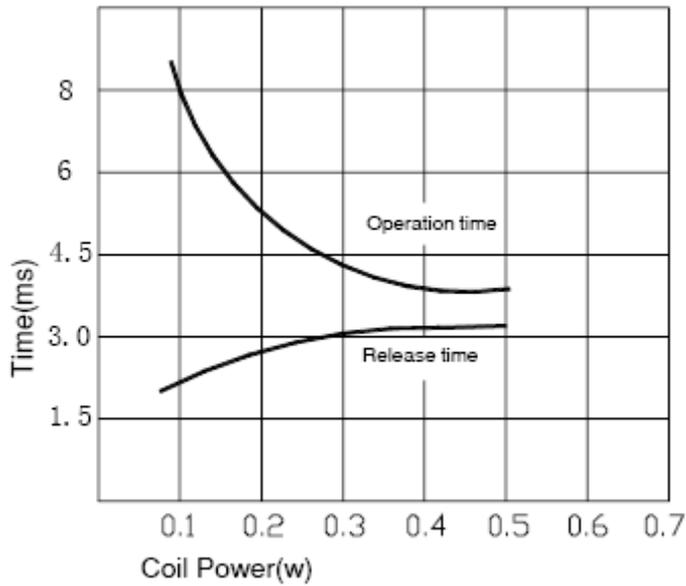
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.

2) The tolerance without indicating for PCB layout is always ± 0.1 mm.

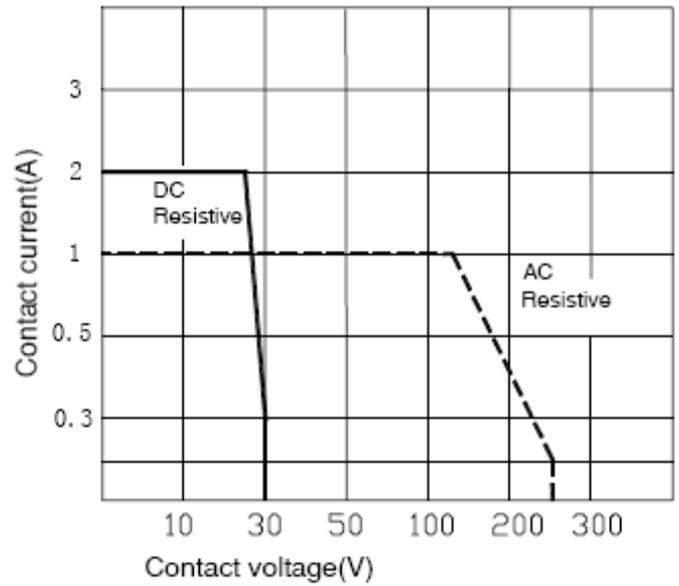
3) The width of the gridding is 2.54mm.

6. CHARACTERISTIC CURVES

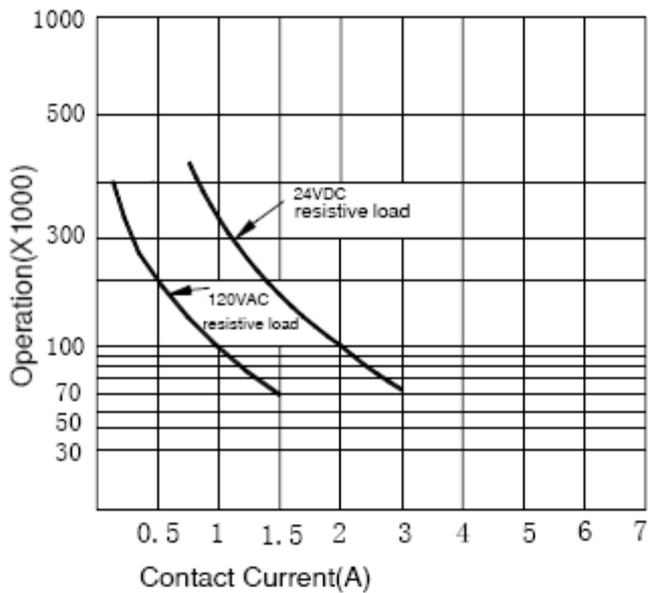
Timing



Coil Temperature Rise



Life Expectancy



Ambient Temperature Vs. Maximum Voltage

