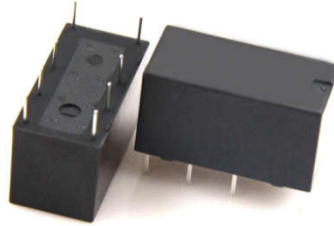


TL4078 Series Signal Relays



- Small size and low cost
- DIP standard terminals
- Sealed type available
- Size 20.5 mm x 10 mm x 11.8 mm

ORDERING CODE

TL — 4078 — 2C — 12V		
1	2	3
1.Relay Model : TL-4078	2.Contact conversion form Z: Form C; H: Form A; D: Form B	3.Coil Nominal Voltage 3,5,6,9,12,24,48VDC

COIL DATA

Nominal Voltage (VDC)	3	5	6	9	12	24	48	
Coil Resistance ($\Omega \pm 10\%$)	60	167	240	540	960	/	/	0.15W
Rated Current (mA)	50	29.9	25	16.7	12.5			
Max Operate Voltage (VDC)	2.4	4	4.8	7.2	9.6	/	/	
Min Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6			
Coil Resistance ($\Omega \pm 10\%$)	45	125	180	405	720	2880	/	0.2W
Rated Current (mA)	66.7	40	33.3	22.2	16.7	8.3		
Max Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	18	/	
Min Release Voltage (VDC)	0.3	0.5	0.6	0.9	1.2	2.4		
Coil Resistance ($\Omega \pm 10\%$)	25	70	100	220	400	1600	6400	0.36W
Rated Current (mA)	120	72	60	40	30	15	85	
Max Operate Voltage (VDC)	2.25	3.75	4.5	6.75	9	18	36	
Min Release Voltage (VDC)	0.3	0.5	0.6	0.9	1.2	2.4	4.8	
Max Applicable Voltage	130% of rated voltage at 70°C, 170% of rated voltage at 23°C							

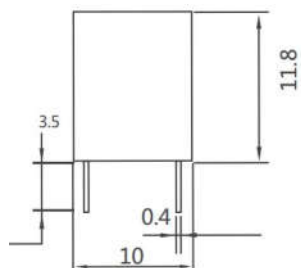
CONTACT DATA

Contact Form	2Z
Contact Material	Silver Alloy
Load	Resistive load(COSΦ=1)
Contact Ratings	1A 125VAC/2A 24VDC
Minimum load	1mA 5VDC
Max Switching Voltage	240VAC/60VDC
Max Switching Current	2A
Max Switching Power	125VA/48W
Contact Resistance	100mΩMax at 6VDC 1A
Life Expectancy	Electrical : 100,000 Operations(at30Operations/minute)
	Mechanical : 10,000,000 Operations(at300Operations/minute)

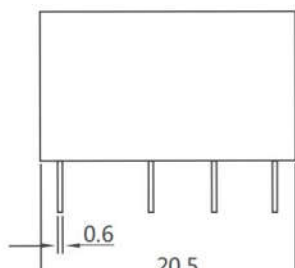
CHARACTERISTICS DATA

Insulation Resistance	100MΩMin at 500VDC
Dielectric Strength Between Open Contacts	500VAC(for one minute)
Between Contacts and coil	1000VAC(for one minute)
Operate Time	8ms
Release Time	4ms
Temperature Range	-30°C to+85°C
Shock Resistance	Operating Extremes : 10G
	Damage Limits : 50G
Vibration Resistance	10-55Hz, 1.5mm
Max. switching frequency	Mechanical:18,000operations/hr
	Electrical:1,800operations/hr
Humidity	40-85%
Weight	Approx 5g

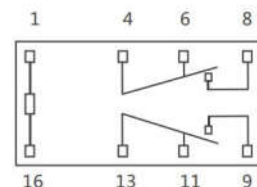
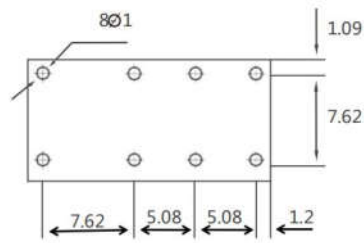
ENGINEERING DATA



Installation drawing



The wiring diagram



Remarks:

1) Tolerance of dimension not indicated in the external dimensions of part of the product: When the external dimensions are ≤ 1 mm, the tolerance is ± 0.2 mm; When the external dimension is 1~5 mm, the tolerance is ± 0.3 mm. When the external dimension is > 5 mm, the tolerance is ± 0.4 mm.

2) In the dimensions of mounting holes, the tolerance of unmarked dimensions is ± 0.1 mm.