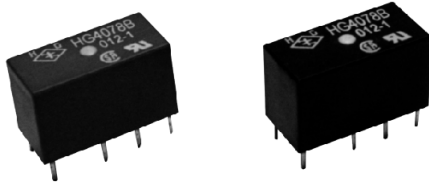


Subminiature PCB Telecom Relay

HG4078B



FEATURES

- Low profile and light weight
- Highly reliable performance
- DIL configuration as IC and for use with DIP socket
- FCC Parts 68 compliant

TYPICAL APPLICATIONS

- Telecommunications
- Office machine
- Instruments
- Computer
- Industrial process control
- Remote control

CONTACT RATING

Form	2 Form C (2Z), crossbar contacts
Switching Current Range	1 mA - 1.25A
Switching Voltage Range	10 mVAC - 125VAC; 10 mVDC - 150VDC
Max. Continuous Current	2A
Switching Power Range	10 μ W - 30W/50VA

CONTACT DATA

Material		AgNi + Au clad
Initial Contact Resistance		50mΩ max. at 1mA, 20mV, 1KHz, meets DIN 41640 Part 4
Service Life	Mechanical	2 x 10 ⁷ ops.
	Electrical	0.14A, 100VDC, 10 ⁶ ops; 1mA, 20mVAC, 1KHz, 2 x 10 ⁶ ops; 2.4mA, 48VDC, 2 x 10 ⁶ ops.

COIL DATA

Type	Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω)	Must Operate Voltage max. (VDC)	Allowable Operate Voltage Range (VDC)	Non-Operate/ Hold Voltage (VDC)	Must Release Voltage min. (VDC)
Standard 0.515-0.56W	003	3	18 $\pm$ 1.8	2.25	2.25 - 4.93	1.05	0.15
	0045	4.5	36 $\pm$ 2.9	3.4	3.4 - 7.0	1.125	0.225
	005	5	45 $\pm$ 3.6	3.8	3.8 - 7.8	1.25	0.25
	006	6	70 $\pm$ 5.6	4.5	4.5 - 9.7	1.5	0.3
	012	12	280 $\pm$ 22	9.0	9.0 - 19.4	3	0.6
	024	24	1070 $\pm$ 107	18.0	18.0 - 37.6	6	1.2
M Sensitive 0.36W	048	48	4300 $\pm$ 430	36.0	36.0 - 74.2	12	2.4
	003	3	25 $\pm$ 2.5	2.25	2.25 - 5.7	1.05	0.15
	005	5	70 $\pm$ 6	3.75	3.75 - 9.72	1.75	0.25
	006	6	100 $\pm$ 8	4.5	4.5 - 11.62	2.1	0.3
	012	12	400 $\pm$ 40	9.0	9.0 - 23.24	4.2	0.6
H Sensitive 0.2W	024	24	1600 $\pm$ 160	18.0	18.0 - 46.47	8.4	1.2
	048	48	6400 $\pm$ 600	36.0	36.0 - 92.94	16.8	2.4
	003	3	50 $\pm$ 5	2.25	2.25 - 7.5	1.05	0.24
	005	5	125 $\pm$ 7	3.8	3.8 - 12.5	1.25	0.4
	006	6	180 $\pm$ 10	4.5	4.5 - 15.0	1.5	0.48
H 0.3W	009	9	405 $\pm$ 41	6.8	6.8 - 27.5	6.75	0.72
	012	12	720 $\pm$ 72	9.0	9.0 - 30	9	0.96
	024	24	2880 $\pm$ 288	18.0	18.0 - 60	18	1.92
	048	48	7680 $\pm$ 680	36.0	36.0 - 100	16.8	4.8
	003	3	70 $\pm$ 6	2.25	2.25 - 9.72	1.05	0.24
L Sensitive 0.15W	0045	4.5	135 $\pm$ 11	3.4	3.4 - 13.5	1.125	0.36
	005	5	167 $\pm$ 13	3.8	3.8 - 15	1.25	0.4
	006	6	240 $\pm$ 19	4.5	4.5 - 18	1.5	0.48
	009	9	540 $\pm$ 54	6.8	6.8 - 27	2.25	0.72
	012	12	960 $\pm$ 96	9.0	9.0 - 35.6	3	0.96
	018	18	2160 $\pm$ 216	13.5	13.5 - 53.4	4.5	1.44
	024	24	3840 $\pm$ 384	18.0	18.0 - 70.1	6	1.92

ORDERING DESIGNATION

Example:

HG4078B /

012 -

1

H

Model

Coil Voltage Code

Version

1: Sealed

Coil Sensitivity

Nil: Standard 0.515 - 0.56W;

M: Sensitive 0.36W;

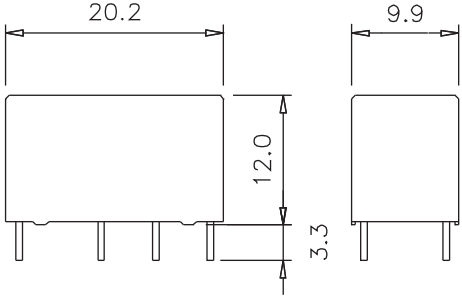
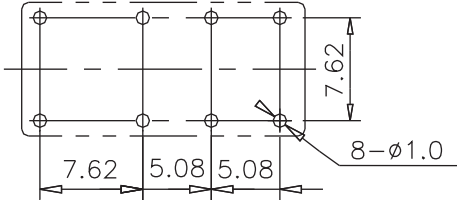
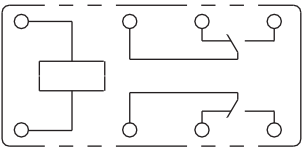
H: Sensitive 0.2W (For coil 48VDC: 0.3W);

L: Sensitive 0.15W

CHARACTERISTICS

Type	Standard	Sensitive M, H, L
Operate Time	7.5 ms. max.	7.5 ms. max.
Operate Bounce	1 ms. typical	0.5 ms. typical
Release Time	3 ms. max.	5 ms. max.
Release Bounce	2.5 ms. typical	3 ms. typical
Insulation Resistance	1000 M	
Dielectric Strength	1000 Vrms, 1 min. between coil and contacts, between adjacent poles 500 Vrms, 1 min. between open contacts	
Surge Strength	1500 V	
Capacitance	2 pf max. between contacts; 0.5 pf max. between adjacent poles; 5 pf max. between coil and contacts	
Shock Resistance	50 g, 11ms.	
Vibration Resistance	10 g, 10 - 70 Hz	
Power Consumption	0.515 - 0.56W	0.15 - 0.36W
Allowable Max. Power Consumption at 20°C	1.02W	
Ambient Temperature	-25°C to 75°C	-25°C to 85°C
Weight	5 g, approx.	

OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAM (mm)

Overall Dimensions 	
Mounting Holes (Bottom View) 	Wiring Diagram (Bottom View) 

NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 20°C.
2. Custom-made services available with operational quantity. Please let us know your special requirements.
3. Specifications subject to change without prior notice.

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