

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	50m Ω 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	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
	024	24	1600 \pm 160	18.0	18.0 - 46.47	8.4	1.2
H Sensitive 0.2W	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
	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
H 0.3W	024	24	2880 \pm 288	18.0	18.0 - 60	18	1.92
L Sensitive 0.15W	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
	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

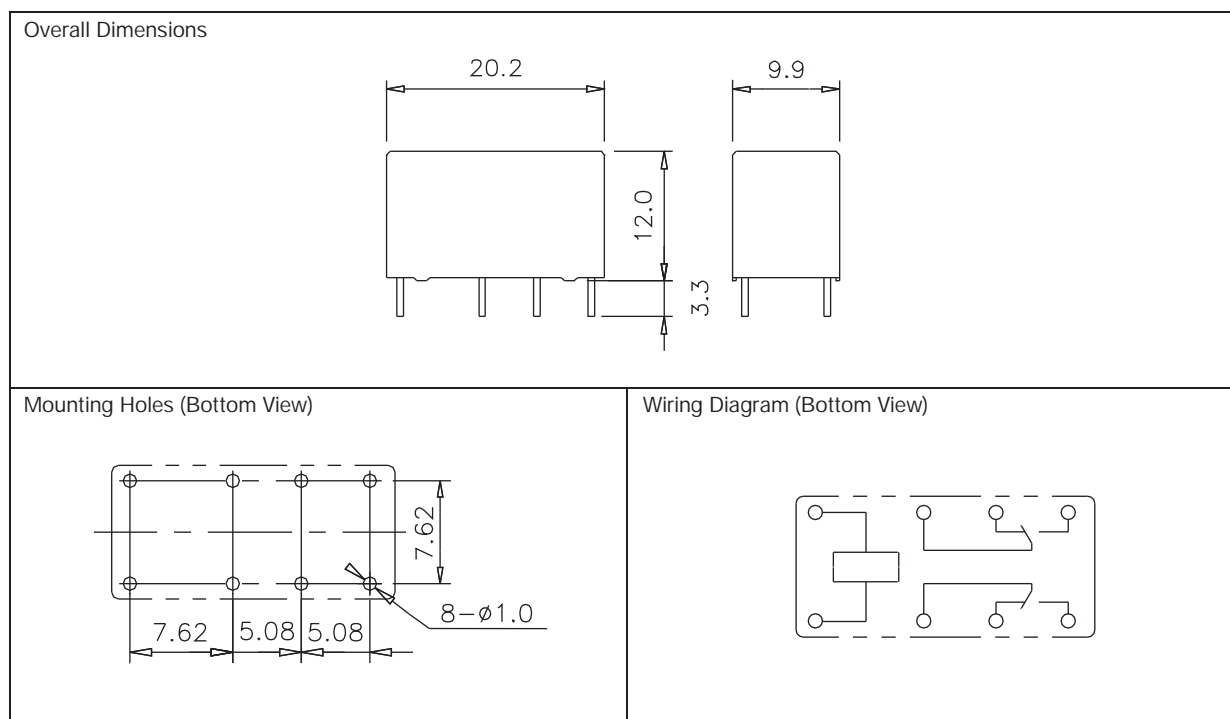
ORDERING DESIGNATION

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)



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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