

Subminiature PCB Telecom Relay

HG4516



FEATURES

- Low profile and light weight
- Highly reliable performance
- DIL configuration as IC and for use with DIP socket
- Single side stable and magnetic latching version available

TYPICAL APPLICATIONS

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

CONTACT RATING

Form	2 Form C (2Z)
Rated Load	2A, 30VDC; 1A, 125VAC
Max. Switching Current	5A
Max. Switching Voltage	220VDC/250VAC
Max. Switching Power	60W/125VA

CONTACT DATA

Material	Ag alloy + Au clad	
Initial Contact Resistance	50 mΩ max. at 0.01A, 6VDC	
Service Life	Mechanical	10 ⁸ ops.
	Electrical	10 ⁵ ops at 2A, 30VDC; 5 x 10 ⁹ ops at 1A, 30VDC

COIL DATA

SINGLE SIDE STABLE

Designation	Nominal Voltage (VDC)	Resistance (Ω) ±10%		Must Operate Voltage max. (VDC)	Allowable Operate Voltage Range. (VDC)	Must Release Voltage min. (VDC)
		Power Consumption				
005-AL	5	167	0.15W	4.0	11.5	0.5
006-AL	6	240		4.8	13.8	0.6
009-AL	9	540		7.2	20.8	0.9
012-AL	12	960		9.6	27.7	1.2
015-AL	15	1500		12.0	34.6	1.5
024-AL	24	3840		19.2	55.4	2.4
005-AH	5	125	0.2W	3.5	10.0	0.5
006-AH	6	180		4.2	12.0	0.6
009-AH	9	405		6.3	18.0	0.9
012-AH	12	720		8.4	24.0	1.2
015-AH	15	1125		10.5	30.0	1.5
024-AH	24	2880		16.8	48.0	2.4
048-AH	48	11520		36.0	96.0	4.8

SINGLE COIL LATCHING

Designation	Nominal Voltage (VDC)	Resistance (Ω) ±10%		Set and Reset Voltage max. (VDC)	Allowable Voltage (VDC)
		Power Consumption			
005-BJ	5	330	0.075W	4.00	16
006-BJ	6	480		4.80	19
009-BJ	9	1080		7.20	29
012-BJ	12	1920		9.60	39
015-BJ	15	3000		12.00	43
024-BJ	24	7680		19.00	78
005-BM	5	250	0.1W	3.75	14
006-BM	6	360		4.50	17
009-BM	9	810		6.75	25
012-BM	12	1440		9.00	34
015-BM	15	2220		11.25	42
024-BM	24	4000		18.00	56

DUAL COIL LATCHING

Designation	Nominal Voltage (VDC)	Resistance (Ω) ±10%		Set and Reset Voltage max. (VDC)	Allowable Voltage (VDC)
		Power Consumption			
005-CL	5	167	0.15W	4.00	11.5
006-CL	6	240		4.80	13.8
009-CL	9	540		7.20	20.8
012-CL	12	960		9.60	27.7
015-CL	15	1500		12.00	34.6
024-CL	24	3840		19.20	55.4
005-CH	5	125	0.2W	3.75	10.0
006-CH	6	180		4.50	12.0
009-CH	9	405		6.75	18.0
012-CH	12	720		9.00	24.0
015-CH	15	1125		11.25	30.0
024-CH	24	2040		18.00	48.0

HG4516

CHARACTERISTICS

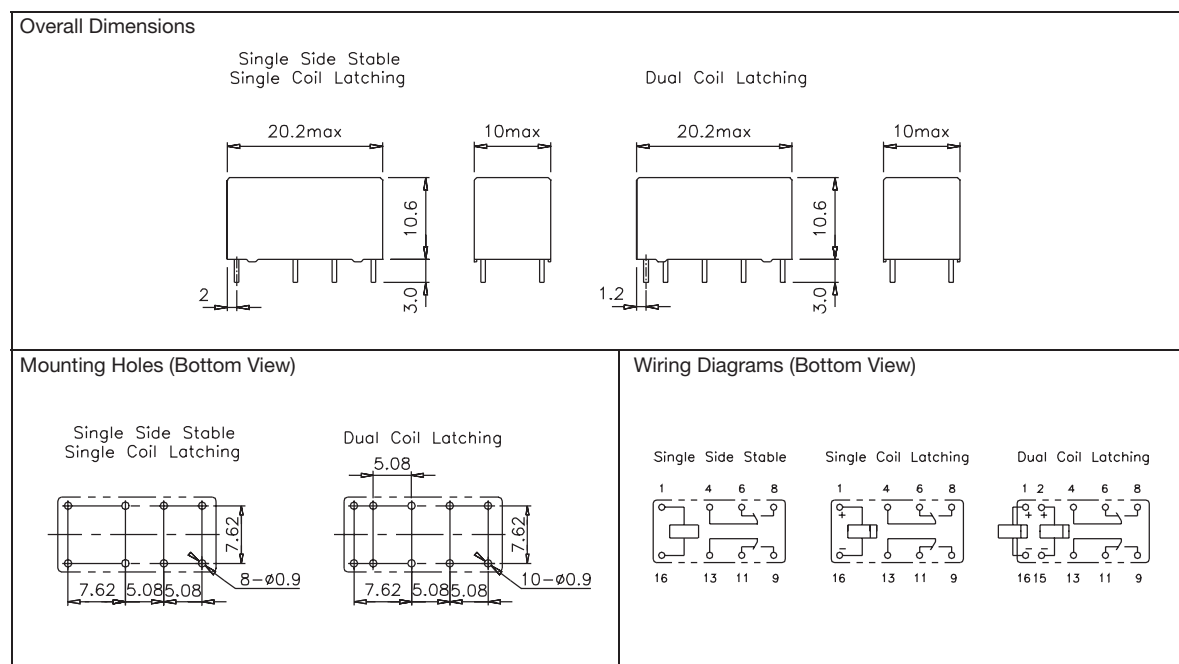
Operate Time	4 ms.
Release Time	3 ms.
Insulation Resistance	1000 MΩ at 500VDC
Dielectric Strength	1500 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
Surge Strength	1500 V
Shock Resistance	5 g, 11ms. functional; 10 g, 11ms. destructive
Vibration Resistance	2 g
Power Consumption	Standard 0.15 - 0.2W, Sensitive 0.075 - 0.1W
Ambient Temperature	-40 - 85 C operating
Weight	8 g, approx.

ORDERING DESIGNATION

Example:	HG4516 /	012 -	1	A	H
Model					
Coil Voltage Code					
Version					
1: Sealed					
A: Single Side Stable					
B: Single Coil Latching; C: Dual Coil Latching					
Coil Sensitivity					
L: 0.15W; H: 0.2W					
J: Sensitive 0.075W; M: Sensitive 0.1W*					

* Sensitive versions J and M are for single coil latching version only

OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 20°C.
2. For single coil latching version the wiring diagram show reset position. Energize terminal 1 and 16 to set and reverse energize the terminal 1 and 16 to reset.
3. For dual coil latching version the wiring diagram show reset position. Energize terminal 1 and 16 to set and energize the terminal 2 and 15 to reset.
4. Custom-made services available with operational quantity. Please let us know your special requirements.
5. Specifications subject to change without prior notice.