

# Subminiature Power Relay

# HG4525



## FEATURES

- 10A, 250VAC contact capacity
- Reduced size than standard HG4124
- Standard and sensitive coils version available
- UL and CUR approved

## TYPICAL APPLICATIONS

- Household appliance
- Business machine
- Air conditioner

## CONTACT RATING

Form	1 Form A (H) / 1 Form C (Z)
Rated Load	10A, 250VAC/30VDC TV-5, 125VAC
Max. Switching Voltage	250VAC/30VDC
Max. Switching Current	10A
Max. Switching Capacity	2500VA/300W

## UL / CSA RATING

Form	1 Form A (H) / 1 Form C (Z)
Resistive Rating	10A, 250VAC 10A, 30VDC
TV	5A, 125VAC

## CONTACT DATA

Material	AgCdO; AgSnOInO	
Initial Contact Resistance	100m $\Omega$ , Max. at 1A, 6VDC	
Service Life	Mechanical	10 <sup>7</sup> ops.
	Electrical	10 <sup>6</sup> ops.

## COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance ( $\Omega$ ) $\pm 10\%$		Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)
		Standard (0.53W)	Sensitive (0.25W)		
003	3	47	100	2.1	0.15
006	6	68	145	4.2	0.30
009	9	155	325	6.3	0.45
012	12	270	575	8.4	0.60
018	18	620	1,300	12.6	0.90
024	24	1,080	2,310	16.8	1.20
048	48	4,400		33.6	2.40

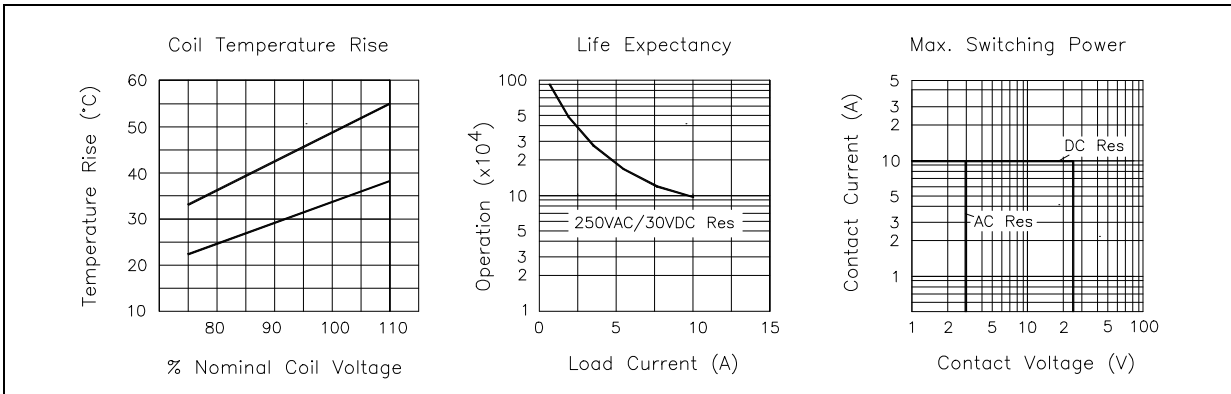
## CHARACTERISTICS

Operate Time	15ms.
Release Time	5ms.
Insulation Resistance	1,000M $\Omega$ , at 500VDC, 50%RH
Dielectric Strength	Between coil and contacts: NO: 4,000Vrms; NC: 3,000Vrms, 1 Min. Between open contacts: 1,000Vrms, 1 Min.
Surge Resistance	10,000V
Shock Resistance	Functional: 20g, 11ms.; Destructive: 100g
Vibration Resistance	DA 0.75mm, 10 – 55 Hz
Power Consumption	Standard: 0.53W; Sensitive: 0.25W
Ambient Temperature	-35°C to 85°C
Weight	12g approx.

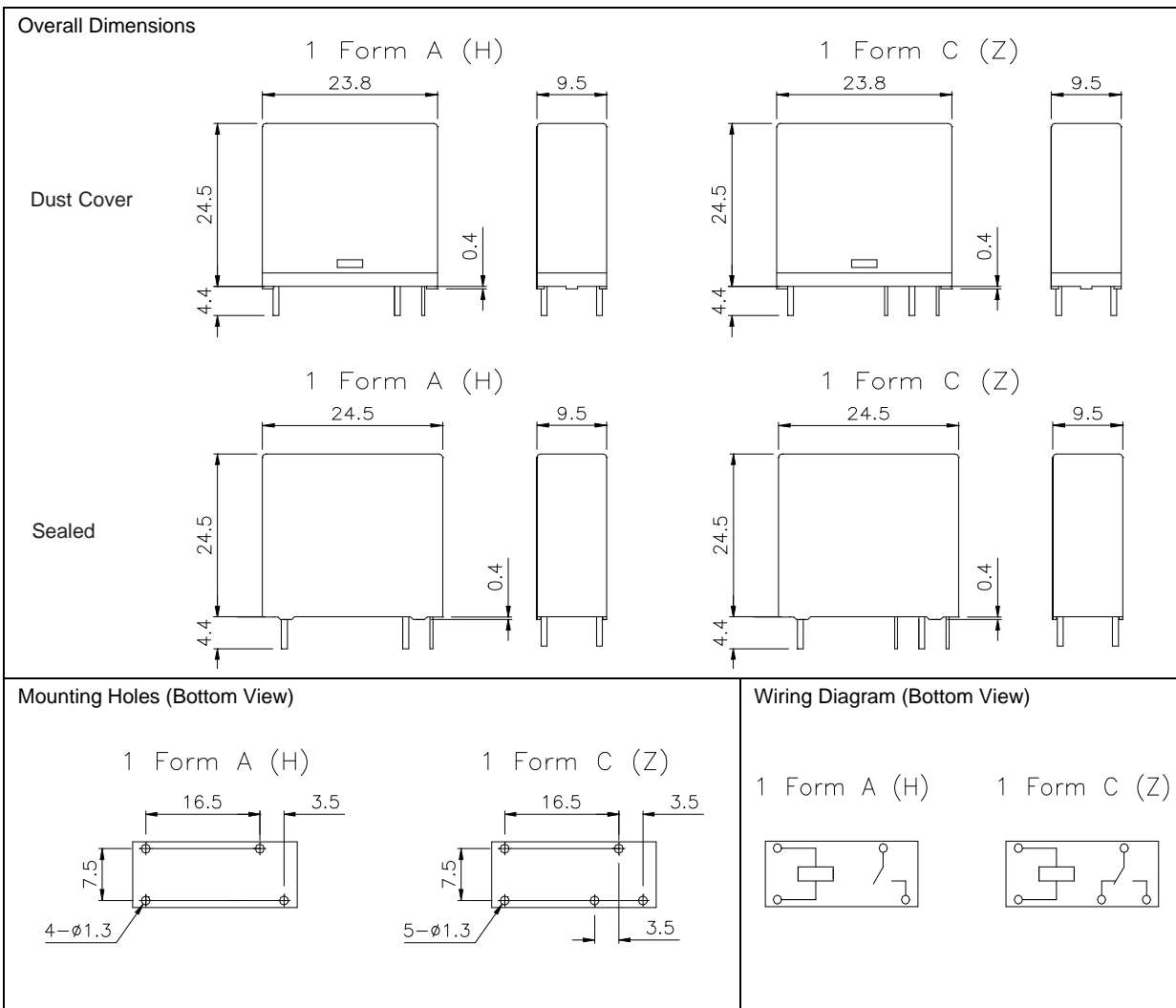
## ORDERING DESIGNATION

Example:	HG4525 /	012 -	H	1	C	L
Model						
Coil Voltage Code						
Contact Form						
H: 1 Form A; Z: 1 Form C						
Version						
1: Sealed; 2: Dust Cover						
Contact Material						
C: AgCdO; S: AgSnOInO						
Coil Sensitivity						
Nil: Standard 0.53W; L: Sensitive 0.25W						

## REFERENCE CURVES



## OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



## NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Custom-made services available with operational quantity. Please let us know your special requirements.
3. Specifications subject to change without prior notice.

**TYH Enterprise Limited**  
 Room 1620B, Nan Fung Centre  
 264-298 Castle Peak Road  
 Tsuen Wan, N.T.  
 Hong Kong  
 Tel: 852-2416-0132  
 Fax: 852-2413-6229  
<http://www.tyhhk.com>  
 email: info@tyhhk.com

Plant : **Shanghai Hi-Gradex Relay Mfg. Co., Ltd.**  
 918 Shixin Road  
 Airport Town  
 Pudong New Area  
 Shanghai 201202  
 China  
 Tel: 86-21-6299-5619 / -5877  
 Fax: 86-21-6299-5619  
 email: tyhesh@online.sh.cn