

HFKA (Twin Relays)

AUTOMOTIVE RELAY



Typical Applications

Power windows and doors, Central door lock, Sunproof,
Seat adjustment, Mirror adjustment, Indicator lamp control,
Wiper control

Features

- 25A motor lock load
- Extremely small relay
- Twin relays with separate system
- Low pick-up type available
- Coil wire insulation class H (180°C) type available
- Reflow soldering available

CONTACT DATA

Contact Arrangement	2C
Initial contact voltage drop	250mV (at 10A)
Contact Material	AgSnO ₂
Max. carry current	25A (at 20°C, one hour)
Min. carry current	100mA
Max. switching current	30A
Max. switching voltage	16VDC
Mechanical life	1 x 10 ⁶ OPS
Electrical life	1 x 10 ⁵ OPS

COIL

Coil power	Standard: 0.64W Low pick-up: Voltage 0.8W
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COIL DATA

Type	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Max. allowable Voltage VDC (at 85°C)	Coil Resistance Ω
HFKA/ST	12	7.2	1.0	16	225 ± 10%
HFKA/SPT	12	6.5	1.0	14	180 ± 10%

CHARACTERISTICS

Initial Insulation Resistance	100MΩ	
Dielectric Strength	Between coil and contacts	500VAC
	Between open contacts	500VAC
Shock Resistance	Functional	100 m/s ²
	Destructive	1000m/s ²
Operate time (at nom. Vol.)	Max.10 ms	
Release time (at nom. Vol.)	Max.10 ms	
Vibration Resistance	50 m/s ² , 10 to 500Hz	
Ambient temperature	-40°C to +85°C	
Termination	PCB	
Unit weight	8g	
Construction	Sealed IP67	



HONGFA RELAY
ISO9001、ISO/TS16949、ISO14001 CERTIFIED

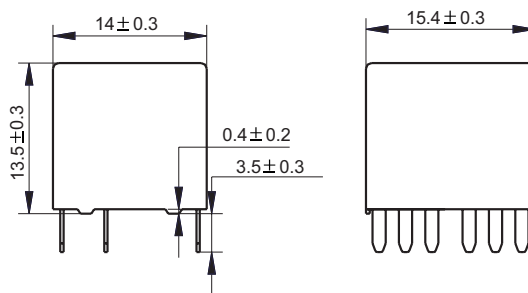
VERSION: EN02-20040601

ORDERING INFORMATION

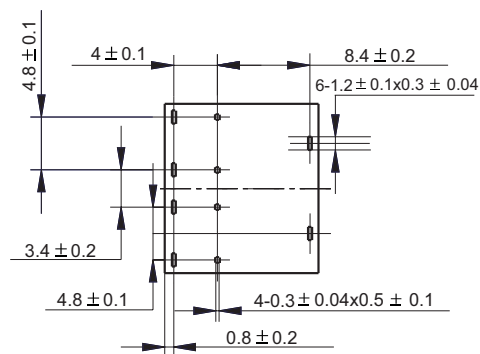
		HFKA / 012		2Z	S	P	T	XXX	
Type	HFKA: Standard HFKA-T: Reflow soldering version								
Coil voltage	12VDC								
Contact arrangement	2Z: 2x1C (Twin relays with separate system)								
Structure	S: Sealed IP67								
Coil power	P: Low pick up voltage Nil: Standard								
Contact material	T: AgSnO ₂		G: AgNi with gold plated		Nil: AgNi				
Customer special request code									

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

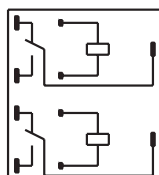
Outline Dimensions



PCB Layout (Bottom View)

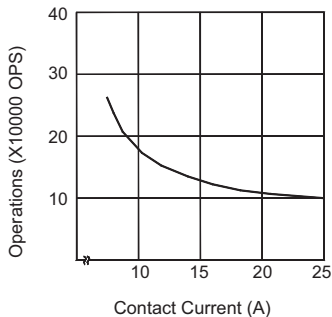


Wiring Diagram (Bottom View)

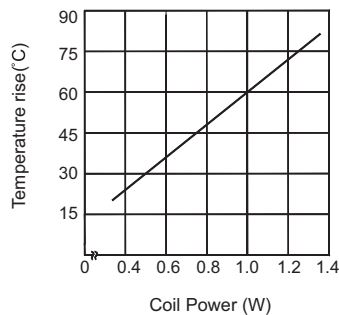


CHARACTERISTICS CURVE

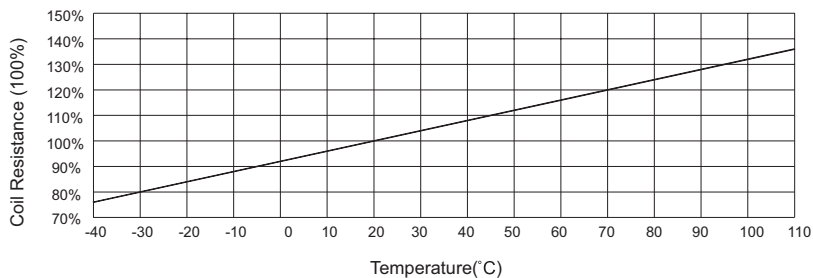
Life Curve



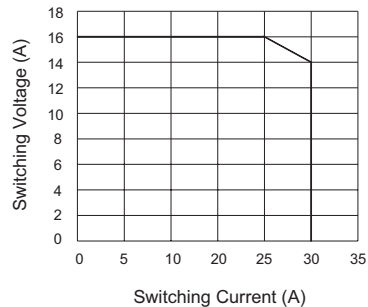
Coil Temperature Rise



Normalized Coil Resistance Vs. Temperature

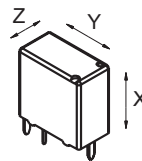
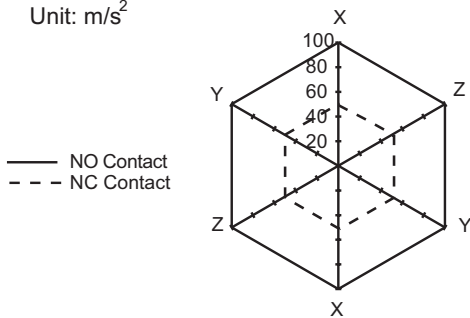


Load Limit Curve



Vibration resistance characteristics

Unit: m/s^2



Shock resistance characteristics

Unit: m/s^2

