



ISO9001 Certified

MINIATURE LATCHING RELAYS

HF8509

- UL / CUR File No :Pending
- 60 A switching capabilities
- 4KV dielectric coil to contacts
- Heavy load up to 15000V
- SPST configurations

■ CONTACT DATA

Arrangement	SPST		
Initial Contact Resistance	50m Ω		
Max. (at 1A 6VDC)	(measured at 1A 24VDC)		
Contact Material	Silver Alloy		
Contact Rating	60A 250VAC	50A 250VAC	40A 250VAC
	5,000 OPS	10,000 OPS	100,000 OPS
Max. switching voltage	Max 250VAC		
Max. switching current	Max 60A		
Max. switching power	Max 15000VA		
UL/CUR rating			
Expected Life min. operations	Mechanical	1×10^6 OPS(1,800 OPS/h)	
	Electrical	Max 1×10^5 OPS	

■ SPECIFICATION

Initial Insulation Resistance	1,000MΩ(500VDC)	
Dielectric Strength		
Between coil and Contacts	4,000VAC 1min	
Between open contacts	1,500VAC 1min	
Creepage Distance	8mm	
Operate time (at nomi. Vot.)	20 ms	
Release time (at nomi. Vot.)	20ms	
Temperature rise (at nominal voltage)		
Shock Resistance	Functional	98 m/s ² Malfunction
	Destructive	980 m/s ² Mechanical
Vibration Resistance	DA:1.5mm,10 to55Hz	
Humidity	98 % +40 °C	
Ambient temperature	-40 to +70 °C	
Termination	PCB & QC	
Unit weight	approx. 33 g	
Construction	Sealed & Dust Cover	

■ COIL

Nominal coil power	DC:1.0W
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■ TABLE

Nominal Voltage	Operating Voltage	Pulse Duration	Coil Resistance (Ω±10%)	
9VDC	≤6.3VDC	≥50ms	Single Winding	80
12VDC	≤8.4VDC			145
24VDC	≤16.8VDC			575
9VDC	≤6.3VDC		Double Winding	2×40
12VDC	≤8.4VDC			2×72
24VDC	≤16.8VDC			2×285

* When requiring else nominal voltage, special order allowed.

■ ORDERING INFORMATION

HF8509-1	/	012	S
Model		Coil Voltage	Structure
-1: Single winding		12VDC Nominal	Nil: Dust Cover
-3: Double winding			S: Sealed

■ OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

