

HF9112

TO-5 SENSITIVE DPDT HERMETICALLY SEALED RELAY



- Features
- Coil power consumption:0.25W
 - Sensitive type
 - High ambient applicability
 - All metal welded construction
 - Fusing soldering and marked by laser
 - Internal diode for coil transient suppression protection

AMBIENT ADAPTABILITY

Ambient grade		I	II	III
Ambient temperature		-55 °C to 85 °C	-55 °C to 85 °C	-65 °C to 125 °C
Humidity		98 %, 40 °C		
Low air pressure		58.53 kPa	4.39 kPa	4.39 kPa
Sine vibration	Frequency	10 Hz to 1000 Hz	10 Hz to 2000 Hz	10 Hz to 3000 Hz
	Acceleration	147 m/s ²	196 m/s ²	294 m/s ²
Shock resistance		490 m/s ²	735 m/s ²	735 m/s ²
Random vibration			20 (m/s ²) ² /Hz	40 (m/s ²) ² /Hz
Steady-state acceleration		490 m/s ²		

CONTACT DATA

Ambient grade		I	II	III
Arrangement		2 C		
Contact resistance	Initial max.	125 mΩ	100 mΩ	100 mΩ
	After life max.	250 mΩ	200 mΩ	200 mΩ

Contact ratings

Ambient grade	Contact load	Type	Electrical life min.
I	0.5 A 28 Vd.c.	Resistive	1 x 10 ⁵ OPS
II	0.5 A 28 Vd.c.	Resistive	1 x 10 ⁵ OPS
	0.2 A 28 Vd.c. 320 mH	Inductive	1 x 10 ⁵ OPS
	0.1 A 28 Vd.c.	Lamp load	1 x 10 ⁵ OPS
III	0.5 A 28 Vd.c.	Resistive	1 x 10 ⁵ OPS
	0.2 A 28 Vd.c. 320 mH	Inductive	1 x 10 ⁵ OPS
	0.1 A 28 Vd.c.	Lamp load	1 x 10 ⁵ OPS
	50 μA 50 mVd.c.	Low level	1 x 10 ⁵ OPS

SPECIFICATION

Ambient grade		I	II	III
Insulation resistance min.		1000 MΩ (@ 500 Vd.c.)	10000 MΩ (@ 500 Vd.c.)	10000 MΩ (@ 500 Vd.c.)
Dielectric strength min. (Normal condition)	Between open contacts	500 Vr.m.s.	500 Vr.m.s.	500 Vr.m.s.
	Between contact & coil	500 Vr.m.s.	500 Vr.m.s.	500 Vr.m.s.
	Between contact & cover	500 Vr.m.s.	500 Vr.m.s.	500 Vr.m.s.
	Between contact group	500 Vr.m.s.	500 Vr.m.s.	500 Vr.m.s.
	Between coil & cover	500 Vr.m.s.	500 Vr.m.s.	500 Vr.m.s.
Dielectric strength min. (Low air pressure condition)		125 Vr.m.s.	125 Vr.m.s.	125 Vr.m.s.
Leakage rate max.		1 Pa•cm ³ /s	1 x 10 ⁻¹ Pa•cm ³ /s	1 x 10 ⁻³ Pa•cm ³ /s
Operate time max.		2 ms		
Release time max / Coil transient suppression type		1.5 ms / 4 ms		
Mounting style		See the mounting dimension		
Terminals		See the terminal styles		
Work position		Random		
Weight max.		2.55 g		

COIL DATA

Normalinal coil power	Approx. 0.25W
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Coil Version

Order Number	Coil voltage		at 25 °C				-65°C to 125°C	
			Coil resistance (1±10%) Ω	Pick-up voltage max.	Hold voltage max.	Drop-out voltage min.	Pick-up voltage max.	Drop-out voltage min.
	Nominal voltage	Value max.						
007	7	8.4	230	4.8	2.4	0.34	5.5	0.22

Notes: We can offer many kinds of coil voltage under the requirement of users.

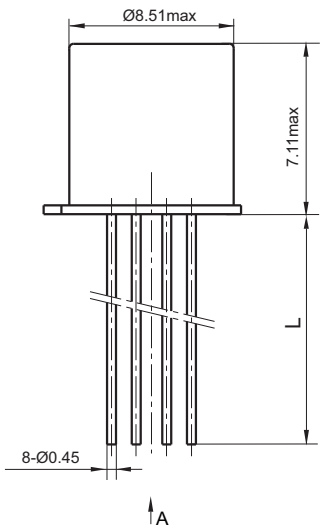
ORDERING INFORMATION

HF9112		-007	D	-01	- I
Type					
Order Number	007				
Transient suppression protection	D: Coil with diode transient suppression protection Nil: Without diode				
Terminals Style	01、 02 、 03 (See " Terminal styles " below)				
Ambient Grade	I 、 II 、 III				

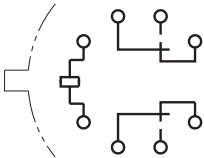
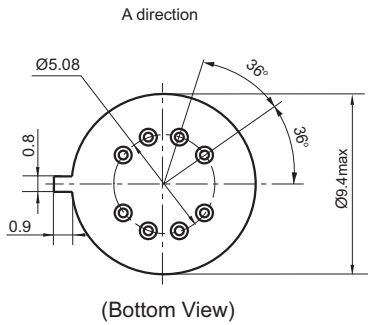
OUTLINE DIMENSIONS AND WIRING DIAGRAM

Unit:mm

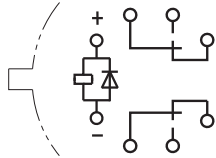
Outline Dimension



L	Terminal Styles Code
5.0±0.5	01
12.5min	02
38min	03



Wiring Diagram
(Bottom View)
(Without diode transient
suppression protection)



Wiring Diagram
(Bottom View)
(With diode transient
suppression protection)

Disclaimer
This datasheet is for the customers' reference. All the specifications are subject to change without notice.

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