HF9110

TO-5 HERMETICALLY SEALED RELAY WITH ESTABLISHED RELIABILITY



Features

- Failure rate can be Level M
- High pure nitrogen protection
- High ambient applicability
- All metal welded construction
- Hermetically welded and marked by laser

Conform to GJB65B-99 (Equivalent to MIL-R-39016)

AMBIENT ADAPTABILITY Ambient Grade Ι IIIII**Ambient Temperature** -55°C to 85°C -65°C to 125°C -65°C to 125°C Humidity 98%, 40°C Low Air Pressure 4.4KPa Frequency 10Hz to 2000Hz 10Hz to 2000Hz 10Hz to 3000Hz Vibration Resistance Acceleration 196m/s² 294m/s² 196m/s² 735m/s² 735m/s² 735m/s² Shock Resistance Random Vibration $40(m/s^2)^2/Hz$ $40(m/s^2)^2/Hz$ Acceleration 490m/s² Implementation Standard GJB65B-99 (MIL-R-39016)

CONTACT DATA							
Ambient Grade		I	II	III			
Arrangement		2 Form C					
Contact Material		Gold/Platinum/Palladium/Silver alloy	Gold/Platinum/Palladium/Silver alloy(Gold plated)				
Contact	Initial	125mΩ	125mΩ 100mΩ				
Resistance (max.)	After Life	250mΩ	200mΩ	200mΩ			
Failure Rate				Level L and M available			

Contact Ratings

Ambient Grade	Contact Load	Туре	Electrical Life (min.)	
I	1.0A 28Vd.c.	Resistive	1 x 10 ⁵ OPS	
	1.0A 28Vd.c.	Resistive	1 x 10 ⁵ ops	
II	0.2A 28Vd.c. 320mH	Inductive	1 x 10⁵ ops	
	0.1A 28Vd.c.	Lamp	1 x 10⁵ ops	
	1.0A 28Vd.c.	Resistive	1 x 10 ⁵ ops	
III	0.2A 28Vd.c. 320mH	Inductive	1 x 10 ⁵ ops	
Ш	0.1A 28Vd.c.	Lamp	1 x 10 ⁵ ops	
	50μA 50mVd.c.	Low Level	1 x 10 ⁵ ops	



SPECIFICATI	ON					
Ambient Grade		I	II	III		
Insulation Resistance (min.)		1000MΩ (at 500Vd.c.)	10000MΩ (at 500Vd.c.)	10000MΩ (at 500Vd.c.)		
	Between open contacts	500Vr.m.s.	500Vr.m.s.	500Vr.m.s.		
Dielectric	Between contacts & coil	500Vr.m.s.	500Vr.m.s.	500Vr.m.s.		
Strength min. (Normal condition)	Between contacts & cover	500Vr.m.s.	500Vr.m.s.	500Vr.m.s.		
(rioimai comanion)	Between contacts sets	500Vr.m.s.	500Vr.m.s.	500Vr.m.s.		
	Between coil & cover	500Vr.m.s.	500Vr.m.s.	500Vr.m.s.		
Dielectric Strength min. (Low air pressure condition)		125Vr.m.s.	125Vr.m.s.	125Vr.m.s.		
Leakage Rate		1 Pa•cm³/s	1 x 10 ⁻² Pa•cm ³ /s	1 x 10 ⁻³ Pa•cm ³ /s		
Operate Time (max	.)	2ms				
Release Time (max)	1.5ms				
Mounting Style		In-line package				
Terminals		PCB				
Work Position		Any position				
Weight		2.55g				

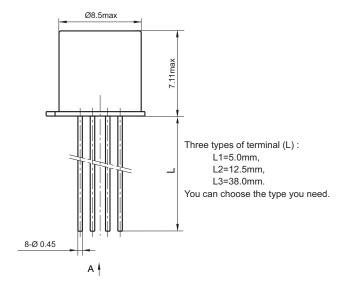
COIL DATA	
Norminal Coil Power	Approx. 0.5W

Coil Version Vd.c								
Coi Vo	oltage		25°C				-65°C to 125°C	
Nominal	Max	Pick-up Voltage max	Hold Voltage max	Drop-out Voltage min	Coil Resistance (1±10%) Ω	Pick-up Voltage max	Hold Voltage max	Drop-out Voltage min
005	5.8	2.7	1.4	0.22	50	3.5	2.3	0.15
006	8	3.5	2.0	0.28	98	4.5	3.2	0.18
009	12	5.3	3.0	0.54	220	6.8	4.9	0.35
012	16	7.0	4.0	0.63	390	9.0	6.5	0.40
018	24	10.5	6.0	0.91	880	13.5	10.0	0.58
027	32	14.2	8.0	1.37	1560	18.0	13.0	0.89

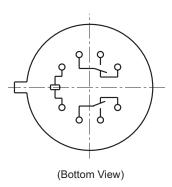
Notes: We can offer many kinds of of coil voltage under the requirement of users.

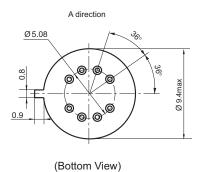
ORDERING INFORMATION							
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Туре							
Coil Voltage	5, 6, 9, 12, 1						
L: Failure rate level L (level III products available) Failure Rate M: Failure rate level M (level III products available) Nil: Without failure rate requirement(level I, II products available)							
Terminals Length 01: 5mm 02: 12.5mm 03: 38mm							
Ambient Grade I : level I II : level II Nil: level III							

Outline Dimensions



Wiring Diagram





Disclaimer

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

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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