

DIP Series Reed Relays

14-Pin Dual In-Line Reed Relay

1 Features

- ◆ Molded one-piece frame design, 14-pin dual in-line package
- ◆ Optional coil suppression diode for coil drive circuit protection
- ◆ High isolation between input and output
- ◆ Low power consumption, fast switching, long-life hermetically sealed contacts
- ◆ Optional magnetic shield for reduced external interference
- ◆ Custom designs available, RoHS compliant

2 Performance Data

Parameter	Unit	DIP-1A□	DIP-2A□	DIP-1B□	DIP-1C□
Contact rating	W	10	10	3	3
Max. switching voltage (Max DC/Peak AC)	V	100			
Max. switching current (Max DC/Peak AC)	A	0.5	0.5	0.2	0.2
Max. carry current	A	1.0	1.0	0.5	0.5
Contact resistance	mΩ	150			
Dielectric strength					
Between open contacts	VDC	200			
Between contacts and coil	VDC	1500			
Insulation resistance	Ω	10 ¹⁰			
Operate time	ms	1.0	1.0	1.5	1.5
Release time	ms	0.5	0.5	2.0	2.0
Vibration (0~2000Hz)	G	20	20	10	10
Shock (11 ms, 1/2 sine wave)	G	30			
Operating temperature	°C	-40~+85			
Storage temperature	°C	-40~+105			
Expected life	Ops	5×10 ⁷ (at 10VDC, 10mA)	5×10 ⁷ (at 10VDC, 10mA)	1×10 ⁷ (at 5VDC, 1mA)	1×10 ⁷ (at 5VDC, 1mA)
Dimensions	/	See dimension drawings			

3 Coil Data

Model	Rated voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Max. voltage (VDC)	Coil resistance
DIP-1A□	5	3.75	0.6	21	500
	12	9	1	30	1000
	24	18	2	44	2150
DIP-1B□	5	3.75	0.6	6	500

Model	Rated voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Max. voltage (VDC)	Coil resistance
	12	9	1	14.5	1000
	24	18	2	29	2150
DIP-1C□	5	3.75	0.6	10	200
	12	9	1	20	500
	24	18	2	28	2000
DIP-2A□	5	4	0.5	10	140
	12	9	1	20	500
	24	18	2	32	2150

Coil resistance unit: $\pm 10\%$ Ω at 20°C

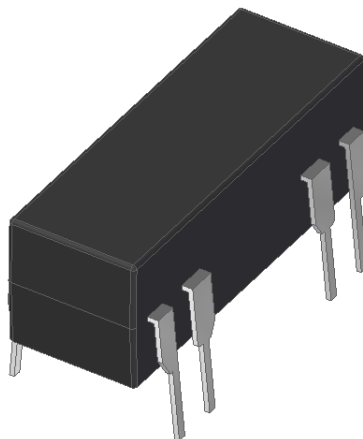
4 Part Number Code

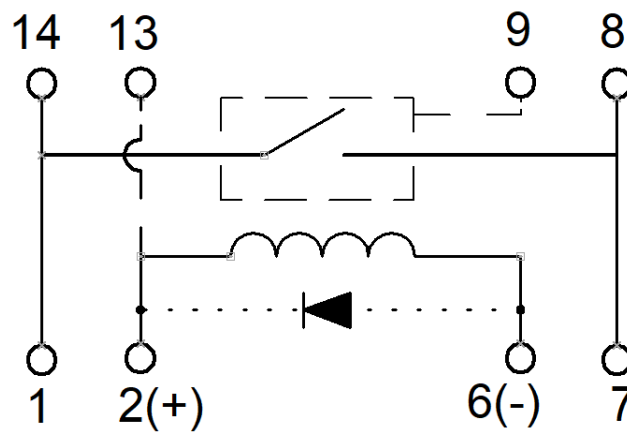
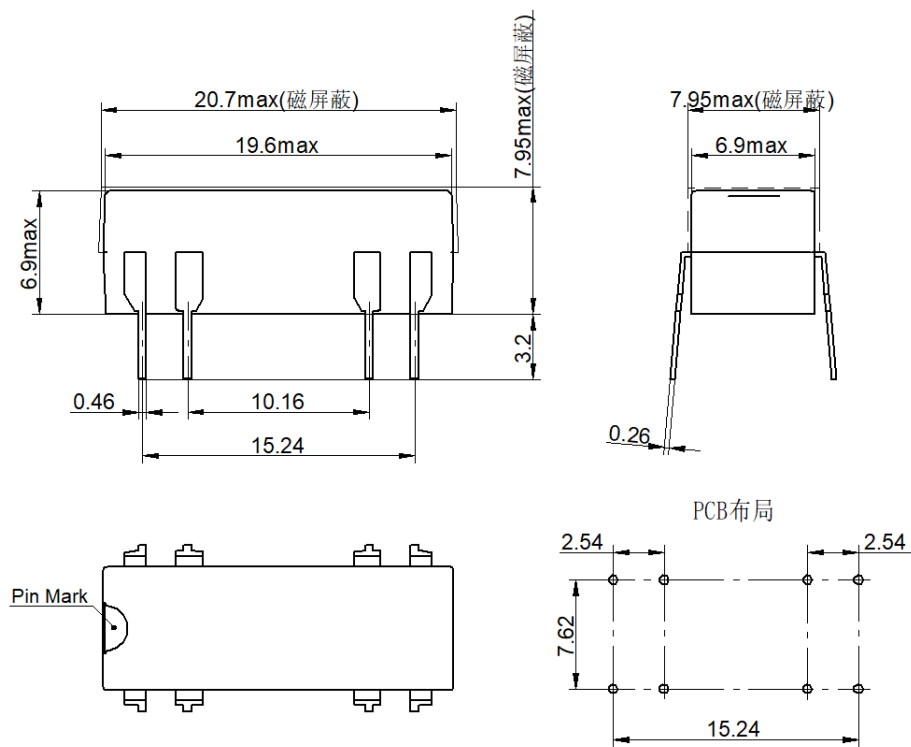
Code format: DIP - □ □ □ □ □-(XXX)

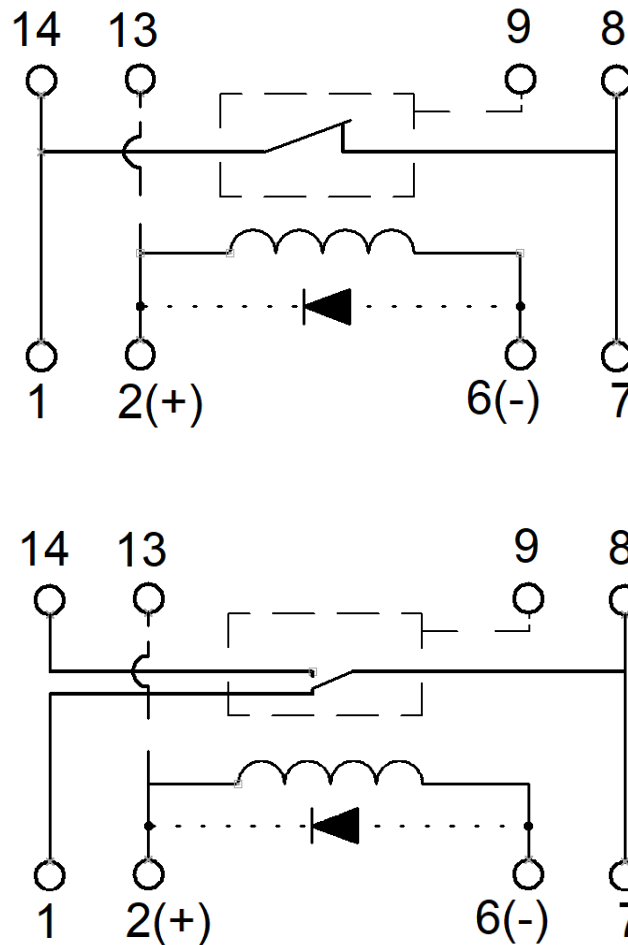
Positions: ① ② ③ ④ ⑤ ⑥ ⑦

Code	Item	Description
①	Series	DIP
②	Contact form	1A: 1 Form A, 1B: 1 Form B, 1C: 1 Form C, 2A: 2 Form A
③	Coil voltage	05: 5VDC, 12: 12VDC, 24: 24VDC
④	Feature	None: standard, D: with diode, S: with magnetic shield, DS: with diode and magnetic shield
⑤	Pins	None: Pin2 and Pin13 not connected, T: Pin2 and Pin13 connected
⑥	Grade	None: standard, C: ATE
⑦	Special characteristic number	Per customer requirements

5 Dimensions & Wiring







6 Cautions for Use

- Do not install the relay where it is directly exposed to rain, in strong magnetic fields, or near objects with heat radiation.
- Switching inductive or capacitive loads may generate peak voltage or current; a protection circuit is recommended, otherwise the relay may be damaged.
- Avoid excessive packing density during use, as this may affect the electrical characteristics of the relay.
- Excessive mechanical shock may cause relay malfunction.
- For wave soldering: max. temperature 260°C, max. 5 s.

7 Disclaimer

This document is for customer reference only. Specifications are subject to change due to product improvements without prior notice. The final specifications of each product are subject to the Product Commitment and approved samples.

Performance requirements vary by application. Customers should select the appropriate product based on actual operating conditions. If in doubt, please contact us.