

Dry Reed Relays

Datasheet standard DIL-14 1 & 2 form A

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Features

- * DIL-14, form A - 10 W epoxy molded dry reed relays
- * Miniature, cost-effective switching solutions
- * Molded construction for automatic board processing & cleaning
- * High density board mounting
- * Diode and electrostatic shield options available

Technical data (@ 25 °C)

		1A05	1A12	1A24	2A05	2A12	2A24	
Input Data / Coil Data	Conditions							unit
Nominal voltage		5	12	24	5	12	24	V
Coil resistance	Ohms (± 10%)	500	1000	2150	140	500	2150	ohm
Must operate / Pull in V		3,8	9	18	3,8	9	18	V
Must release / Drop out V		0,8	1	2	0,8	1	2	V
Nominal input power		50	144	268	179	288	268	mW
Maximum voltage		10	20	30	10	20	30	V

Output Data/Contact Data

		1A	1A	1A	2A	2A	2A	
Contact form		1A	1A	1A	2A	2A	2A	
Max. switching power	Max DC/PeakAC Resistive	10						W
Max. switching voltage	Max DC/PeakAC Resistive	200						V
Max. switching current	Max DC/PeakAC Resistive	0,5						A
Max. carry current	Max DC/PeakAC Resistive	2						A
Switching frequency		500						Hz
Max. contact resistance	50 mV, 10 mA	150						mOhm
Life expectancy	Signal level 1 V, 10 mA	min. 300 / typ. 500 x 10 ⁶ operations						

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Relay parameters	Conditions	MIN	TYP	MAX	UNITS
Insulation resistance	between all isolated pins at 100 V, 25°C, 40% RH	10 ¹⁰	10 ¹²		Ohms
Capacitance	Across open contacts		0.7	1	pF
	Open contact to coil		1.5	2	pF
Dielectric strength	Between contacts	250			VDC / peakAC
	Contacts to coil	1400			VDC / peakAC
Operate time (incl.bounce)	At nominal coil voltage, 10 Hz Sq.W.		0.25	0.50	ms
Release time	Zener-diode suppression		0.25	0.50	ms

Environmental Ratings

Operating temperature		-40		85	°C
Storage temperature		-40		125	°C
Shock resistance	1/2 sine wave duration 11 ms			100	g
Vibration resistance	5 to 2000 Hz			20	g
Weight			2.3		grams
Humidity test	40°C, 93% RH, 21 days				
Terminal solderability	IEC 68-2-20 test Ta, method 1, solderbath temp 235°C, immersion time 2 sec				
Resistance to solder heat	IEC 68-2-20 test Tb, method 1A, solderbath temp 260°C, immersion time 10 sec				

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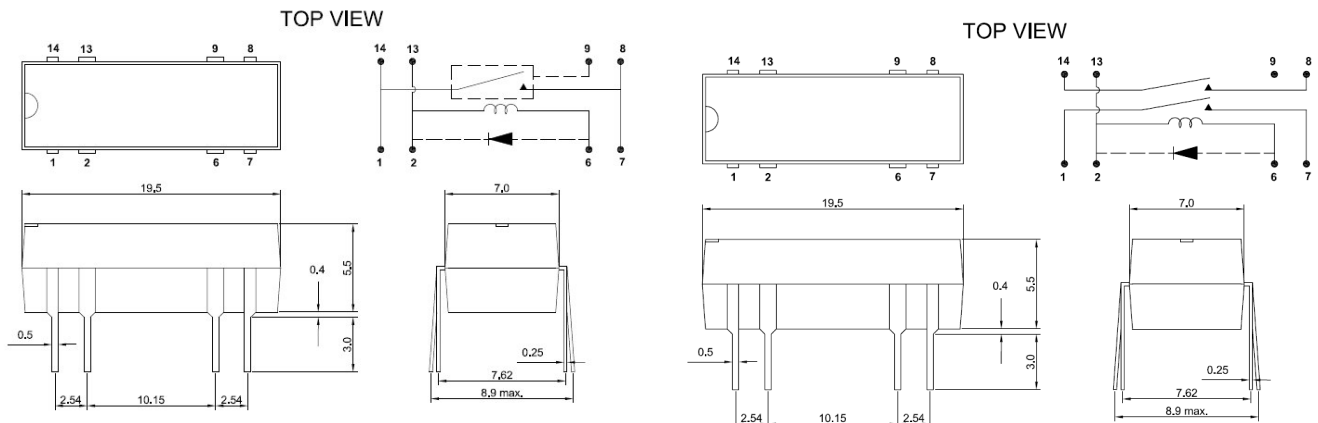
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Dimensions & Pin layout



Options and order information

Series	Contact form	Nominal Coil Voltage	Options
1A	3570.1210.	05	1 = without
2A	3572.1220.	12	2 = electrostatic shield (pin 9)
		24	3 = with diode (pin 2/13-6, cathode pin 2)
			4 = electrostatic shield + diode

Equivalent partnumbers

Series	Contact form	Nominal Coil Voltage	Options
PRMA	1A	05	A = electrostatic shield (pin 9)
	2A	12	B = diode (pin 2/13-6, cathode pin 2)
		24	C = electrostatic shield + diode