

Dry Reed Relays

Datasheet DIL-14

1 form A - low profile

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Features

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

Technical data (@ 25 °C)

		1A05	1A12	1A24	
Input Data / Coil Data		Conditions			unit
Nominal voltage		5	12	24	V
Coil resistance	Ohms (± 10%)	500	1000	2000	ohm
Must operate / Pull in V		3,8	9	18	V
Must release / Drop out V		0.8	1	2	V
Nominal input power		50	272	288	mW
Maximum voltage		15	120	30	V

Output Data/Contact Data

		1A	1A	1A	
Contact form		1A	1A	1A	
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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Technical data (@ 25 °C)

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		0.8	1	pF
	Open contact to coil		1.5	2	pF
Dielectric strength	Between contacts	250			VDC / peakAC
	Contacts to coil	1000			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

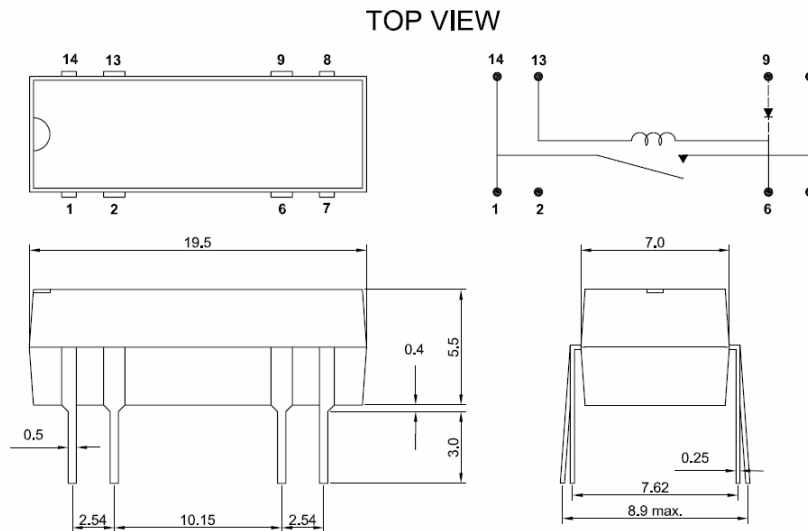
Operating temperature		-40	85	°C
Storage temperature		-40	125	°C
Shock resistance	1/2 sine wave duration 11 ms		100	g
Vibration resistance	5 to 2000 Hz		20	g
Weight			1.8	grams
Humidity test	40 °C, 93% RH, 21 days			
Terminal solderability	IEC 68-2-20 test Ta, method 1, solderbath temp 235 °C, immersion 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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Dimensions & Pin layout



Options and order information

Series	Contact form	Nominal Coil Voltage	Options
1A	3570.1301.	05	1 = without
		12	2 = electrostatic shield
		24	3 = with diode
			4 = electrostatic shield + diode

Equivalent partnumbers

Series	Nominal Coil Voltage	Options
PRME 25005	05	A = electrostatic shield (pin 9)
PRME 15002	12	B = diode (pin 2/13-6, cathode pin 2)
PRME 15003	24	C = electrostatic shield + diode