

Dry Reed Relays

Datasheet DIL-14

1 form A - LOW PROFILE

Comus International Bvba
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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)

Input Data / Coil Data 3570.1301.	Conditions					unit
		051	121	151	241	
Nominal voltage		5	12	15	24	V
Coil resistance	Ohms (± 10%)	500	1000	2000	2000	ohm
Must operate / Pull in V		3.8	9	11.5	18	V
Must release / Drop out V		0.8	1	2	2	V
Nominal input power		50	144	112	288	mW
Maximum voltage		10	20	20	28	V

Output Data/Contact Data

Contact form		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	1	A
Switching frequency		500	Hz
Max. contact resistance	50 mV, 10 mA	150	mOhm
Life expectancy	Signal level 1 V, 10 mA	min. 300 x 10 ⁶ operations	

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Relay parameters	Conditions	MIN	TYP	MAX	UNITS
Insulation resistance	Across open contact	10 ¹⁰	10 ¹²		Ohms
	Between two switches	10 ¹⁰	10 ¹²		Ohms
	Contacts to coil	10 ¹⁰	10 ¹²		Ohms
	Contact to cover	10 ¹⁰	10 ¹²		Ohms
	Coil to cover	10 ¹⁰	10 ¹²		Ohms
Capacitance	Across open contacts		0.8	1	pF
	Open contact to coil		1.5	2	pF
	Closed contact to coil		-	-	pF
Dielectric strength	Between contacts	250			VDC / peak AC
	Contacts to coil	1000			VDC / peak AC
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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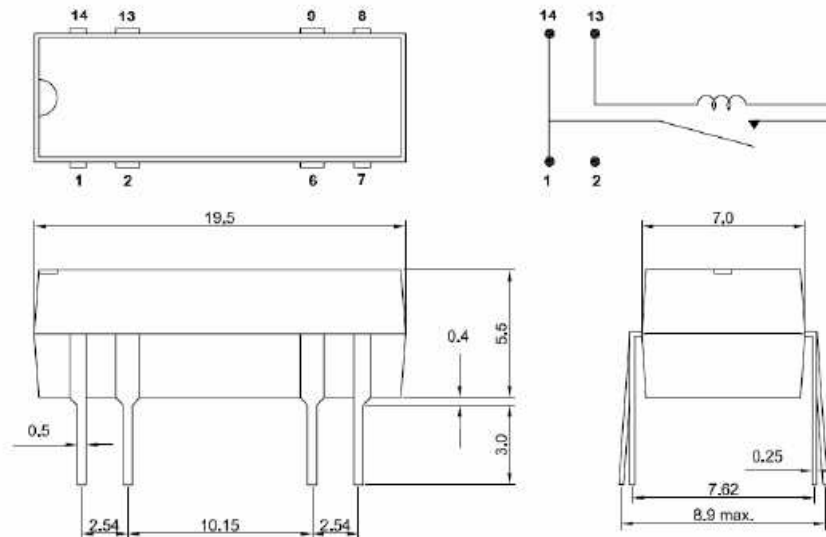
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Dimensions & Pin layout (TOP VIEW)



Options and order information

Series	Nominal coil Voltage	Options	Additional options
3570.1301	05	1 = without	M = external magnetic shield
	12	2 = electrostatic internal shield (pin 9)	
	15	3 = with diode (pin 2/13-6, pin 2 = +)	
	24	4 = electrostatic internal shield + diode	

Equivalent partnumbers

Series	Contact form	Nominal coil Voltage	Options
PRME	25005	05	A = electrostatic internal shield (pin 9) B = with diode (pin 2/13-6, pin 2 = +) C = electrostatic internal shield + diode
	15135/15154	12	
	15015	15	
	15003	24	