Dry Reed Relays
Datasheet standard DIL-14
1 form C

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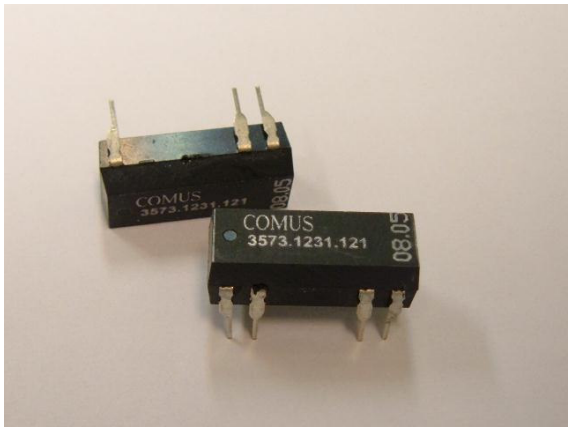

Features

* DIL-14, form C (5 W) / form C (20W) 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)

PRMA		1C05 -5	1C12 -5	1C24 -5	1C05 -20	1C12 -20	1C24 -20	
Input Data / Coil Data	Conditions							unit
Nominal voltage		5	12	24	5	12	24	V
Coil resistance	Ohms (± 10%)	200	500	2150	200	500	2150	ohm
Must operate / Pull in V		3,5	8	16	3,5	8	16	V
Must release / Drop out V		1	2	4	1	2	4	V
Nominal input power		125	288	268	125	288	268	mW
Maximum voltage		10	18	35	10	18	35	V

Output Data/Contact Data

Contact form		1C	1C	1C	1C	1C	1C	
Max. switching power	Max DC/PeakAC Resistive	5			20			W
Max. switching voltage	Max DC/PeakAC Resistive	100			150			V
Max. switching current	Max DC/PeakAC Resistive	0,5			1			A
Max. carry current	Max DC/PeakAC Resistive	1			2			A
Switching frequency		250			250			Hz
Max. contact resistance	50 mV, 10 mA	150			150			mOhm
Life expectancy	Signal level 1 V, 10 mA	typ. 20 x 10^6			typ. 20 x 10^6			Ops

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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		2.5	3	pF
	Open contact to coil		3	3	pF
Dielectric strength	Between contacts	200			VDC / peakAC
	Contacts to coil	500			VDC / peakAC
Operate time (incl.bounce)	At nom. coil voltage, 10Hz Sq.W. (5/20W)			1.2/2.6	ms
Release time	Zener-diode suppression (5/20W)			0.8/0.5	ms

Environmental Ratings

Operating temperature		-40		85	°C
Storage temperature		-40		125	°C
Shock resistance	1/2 sine wave duration 11 ms (1B / 1C)			50	g
Vibration resistance	5 to 2000 Hz (1B / 1C)			10	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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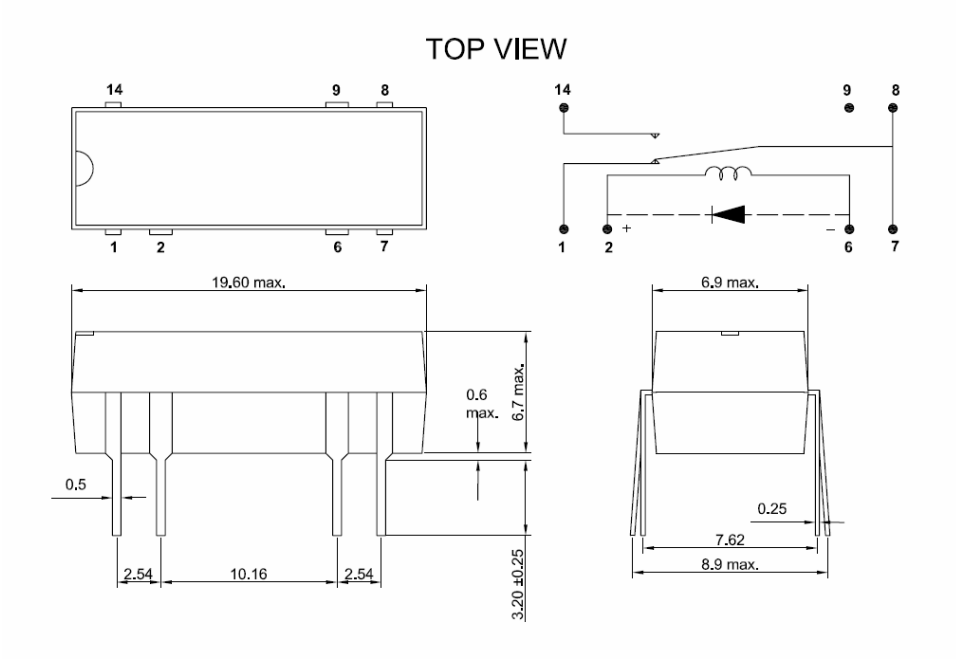
Dimensions & Pin layout



Options and order information

	35xx.1231.xxx		
1C 5 W	3573.1231.	05 12 24	1 = without 2 = electrostatic shield 3 = with diode 4 = electrostatic shield + diode
1C 20 W	3565.1231.		

Equivalent partnumbers

Series	Contact form	Nominal Coil Voltage	Option 1	Option 2
PRMA	1C	05	A = electrostatic shield (pin 9)	- 5 = 5 watt
		12	B = diode (pin 2/13-6, cathode pin 2)	- 20 = 20 watt
		24	C = electrostatic shield + diode	