COTO TECHNOLOGY®

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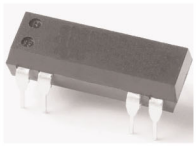
PRME

DIP 14 Series Reed Relays

DESCRIPTION

Coto's epoxy molded DIP 14 Series offers a variety of contacts and schematics to meet the needs of a wide range of applications. With switching up to 50 Watts and a 4000V isolation option, the DIP 14 Series is a relay package that allows for automatic insertion directly on PCBs as well as insertion into standard 14 pin DIP sockets.



FEATURES

- Stable contact resistance over life
- 4000 Vac input-output isolation
- Bounce free operation
- High insulation resistance
- Long life > 1 billion operation
- Epoxy molded for automatic board processing
- RoHS Compliant

APPLICATIONS

- Automatic test equipment
- Process control
- Industrial
- Telecom
- Datacom
- High-end security systems
- Signaling
- Metering

SPECIFICATIONS

Parameters	Conditions	Min	Typ	Max	Units
Contact Ratings					
Switching Voltage	Max DC/Peak AC Resistive			200	Volts
Switching Current	Max DC/Peak AC Resistive			0.5	Amps
Carry Current	Max DC/Peak AC Resistive			2	Amps
Contact Rating	Max DC/Peak AC Resistive			10	Watts
Life Expectancy	Signal Level 1.0V, 10mA		500		x 10^6 Ops
Static Contact Resistance	50mV, 10mA			150	mOhms
Contact Material			Ru		
Relay Specifications					
Insulation Resistance	Between all isolated pins at 100V, 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/Peak AC
	Contacts to Coil	1000			VDC/Peak AC
Operate Time, including bounce	At Nominal Coil Voltage 10Hz Square Wave		0.25	1	msec
Release Time	Zener-Diode Suppression		0.2	1	msec
Enviromental Ratings					
Storage Temperature		-40		+105	°C
Operating Temperature		-40		+80	°C
Soldering Temperature	Applied to pins, 5sec max			+260	°C
Vibration Resistance[2] (survival)	5Hz - 2000Hz			20	Gs
Shock Resistance	11±1ms, 1/2 Sine Wave			100	Gs
Weight			1.5		grams

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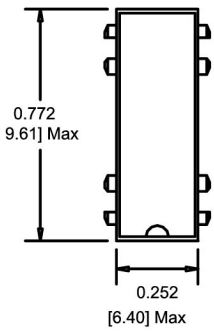
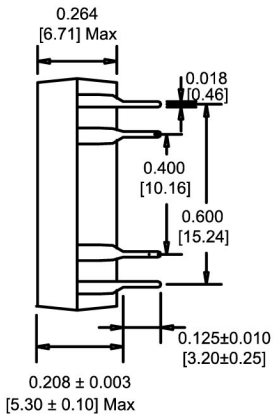
COIL SPECIFICATIONS

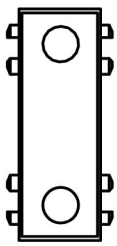
	Contact Form	Coil Voltage			Coil Resistance			Operate Voltage						Nominal Input Power		
Units		Volts			Ohms			Volts			Volts			mW		
Conditions					+/- 10% (25°C)			Must operate by (25°C)			Must release by (25°C)					
Part #		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
PRME25005	1 Form A		5	19	450	500	550	0.8		3.8	0.8		3.8		50	
PRME15005	1 Form A		5	15	342	380	418	1		3.5	1		3.5		66	
PRME15002	1 Form A		12	19	477	530	583	1		8	1		8		272	
PRME15003	1 Form A		24	32	1800	200	2200	2		16	2		16		288	

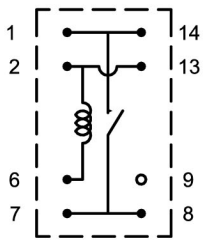
MECHANICAL DIMENSIONS

Dimensions in inches [mm]









WIRING DIAGRAM

Options:
A = ES option - pin #9
B = Diode option - pin #13 is positive
AB = Shield and diode option