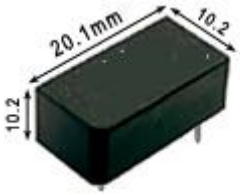
DIL Series

2A, 1C, 2C Reed Relays



PRODUCT DESCRIPTION

DIL is a dual-in-line Reed Relay compatible with 14 pin DIL socket, supplied in an epoxy encapsulated package, high speed switching compared to electromechanical relays. Available with dielectric strength 4.25kVDC. Optional diode and magnetic shield. The DIL series is ideal for use in General purposes, Telecommunications, Test and Measurement & Others.

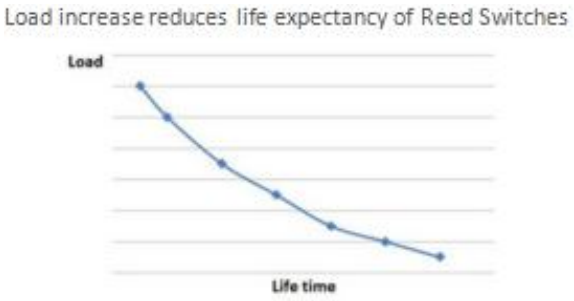
FEATURES and BENEFITS

- Compatible with 14 pin DIL socket.
- High reliability reed relays.
- High Insulation Resistance.
- Hermetically sealed contacts for long life.
- Available with Dielectric Strength 4.25kVDC, Diode, Magnetic Shield & Others.
- 2 Form C available
- 2 Form A switches available
- High power switching available

Handling & Assembly Instructions

- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

LIFE TEST DATA



Relays Data

ITEM	DIL Reed Relays	
Contact form	2A	1C, 2C
Maximum switching power Maximum switching voltage Maximum switching current Maximum carry current	10VA(W) 200VDC or Peack AC 0.50A 1.00A	5VA(W) 175VDC or Peack AC 0.25A 1.5A
Contact Resistance	150milliohms Max.	200milliohms Max.
Life Expectancy Signal Level Load (Ref,12VDC,10Ma)	$200x10^6$ Operations	$20x10^6$ Operations
Timing Operate Time Bounce Time (NO/NC) Release Time	 0.1ms Max. 1.0ms Max. 0.15ms Max	 0.5ms Max. 1.0ms/2.0ms Max. 1.5ms Max
Breakdown Votage Coil to cantacts Across contact	 1400VDC(1000Vrms) 250VDC(175Vrms)	 1400VDC(1000Vrms) 200VDC(140Vrms)
Insulation Resistance	10^{10}OHMS	10^9OHMS
Capacitance Across open contact Open contact to coil	 1.0Pf Max 2.0Pf Max	 1.0Pf Max 4.0Pf Max
Environmental temperature Total internal relay(storage) Oprating Shock resistance Vibration resistance Soldering temperature(5 sec. Dwell	 -25℃ to +85℃ -20℃ to 70℃ 100g, 11±1ms, 1/2sin WAVE 20g, 10 to 2000 HZ 260℃	 -25℃ to +85℃ -20℃ to +70℃ 50g, 11±1ms, 1/2sin WAVE 20g, 10to2000HZ 260℃

Glossary Contact Form

Form A	NO = Normally Open Contacts SPST = Single Pole Single Throw	
Form B	NC = Normally Closed Contacts SPST = Single Pole Single Throw	
Form C	Changeover SPDT = Single Pole Double Throw	

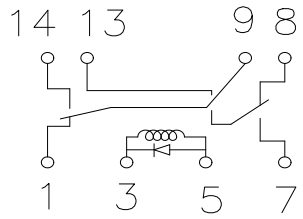
REACH COMPLIANT

RoHS COMPLIANT

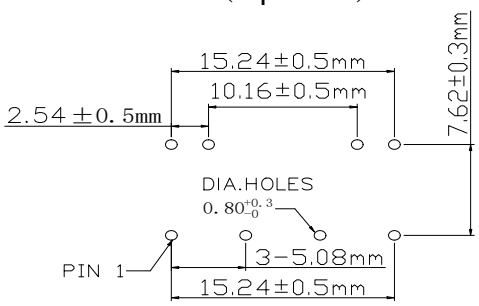
DIMENSIONS (unit:mm)

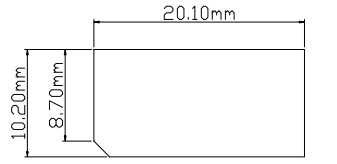
DIL Form2C

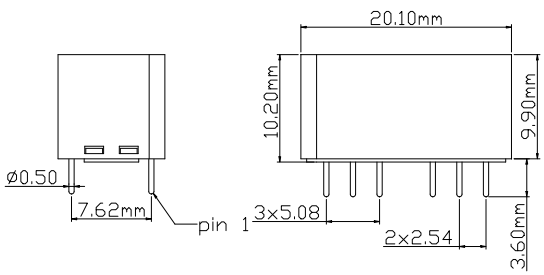
WIRING DIAGRAM TOP VIEW



PCB Layout
(top View)

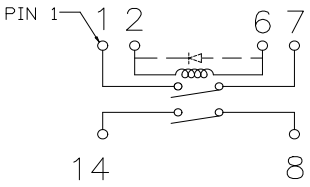




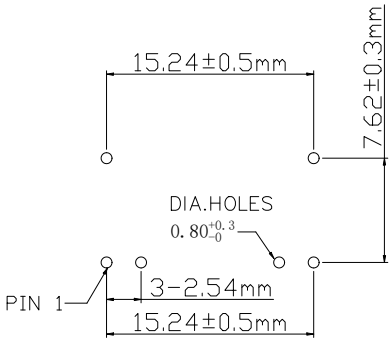


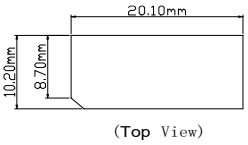
DIL Form2A

WIRING DIAGRAM BOTTON VIEW

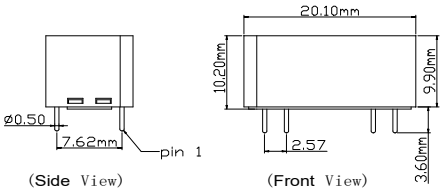


PCB Layout
(top View)





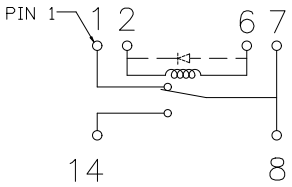
(Top View)



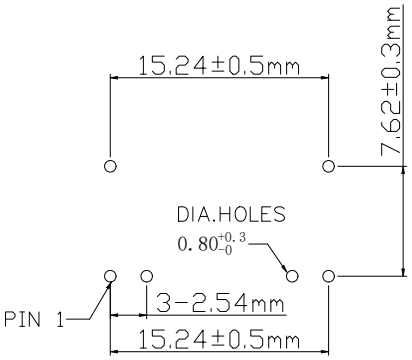
(Side View) (Front View)

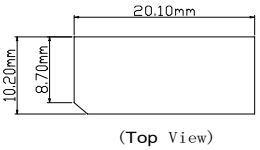
DIL Form1C

WIRING DIAGRAM BOTTON VIEW

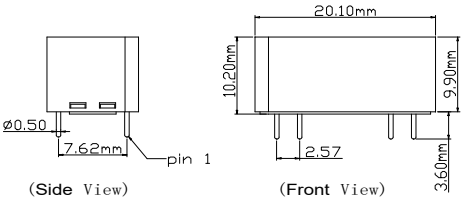


PCB Layout
(top View)



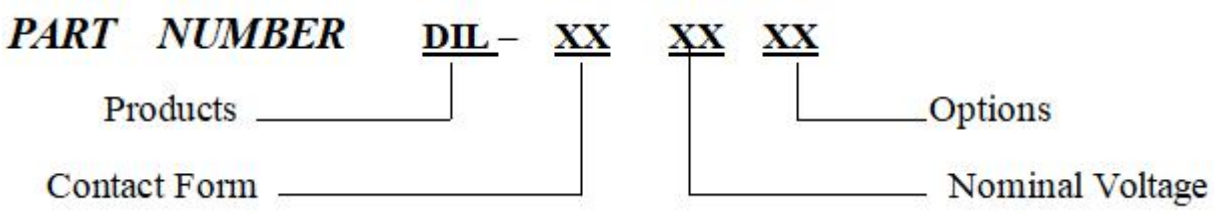


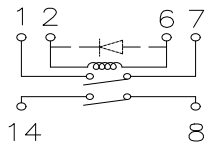
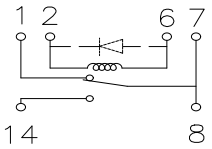
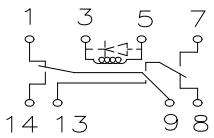
(Top View)



(Side View) (Front View)

ORDERING INFORMATION



P/N	Schematic Contact Form (Bottom View)	Nominal Voltage (VDC)	Coil resistance (Ω±10%)	Nominal input Power (Mw)	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Maximun Voltage (VDC)
DIL-2A05 DIL-2A12 DIL-2A24		5 12 24	200 1000 2000	125 144 288	3.5 8.5 17	0.75 1.8 3.6	7.5 16 30
DIL-1C05 DIL-1C12 DIL-1C24		5 12 24	200 1000 3000	125 145 190	3.5 8.5 17	0.75 1.8 3.6	7.5 16 30
DIL-2C05 DIL-2C12 DIL-2C24		5 12 24	150 700 2000	167 206 290	3.5 8.5 17	0.75 1.8 3.6	7.5 16 30

Options:

Nil:Std type

B : Diode. S : Magnetic Shield . BS: Diode and Magnetic Shield .

Special performance:

The following special options are available on request

- Other pinning layout
- Other coil resistance values
- Other switches available