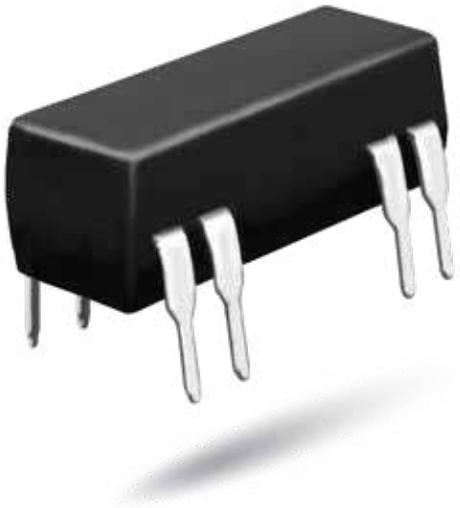
8L SERIES/SPARTAN DIP REED RELAYS



8L Series Economy DIP Reed Relays

The Coto 8L Spartan Series relays combine Coto quality and economy in the industry standard 14 pin molded DIP package. This series will cross to all competitive DIP packages and is ideal for telecom, security, and other general purpose applications.

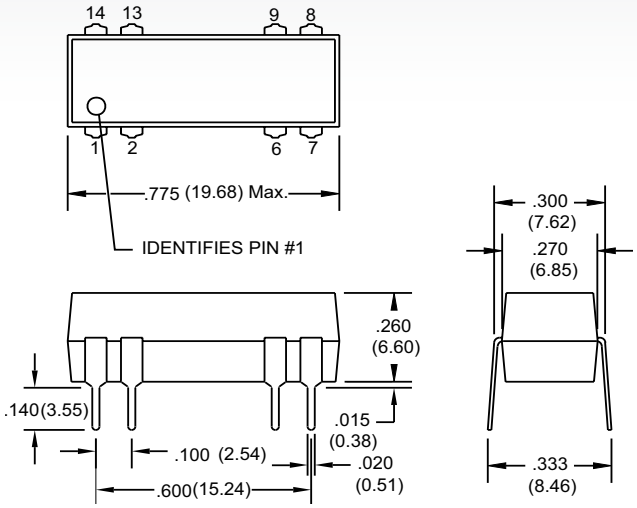
8L Series Features

- Drop-in low cost replacement for industry standard DIP packages
- Contact forms; 1A, 2A and 1C available
- Available coils in 5V, 12V and 24V
- Molded thermoset body on integral lead frame design
- Hermetically Sealed Contacts
- Optional Electrostatic Shield and Coil Suppression Diode
- UL File #E67117 - Contact factory for details
- RoHS compliant

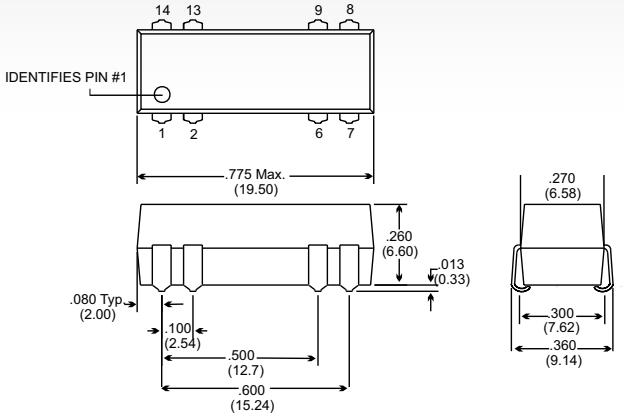
DIMENSIONS

in Inches (Millimeters)

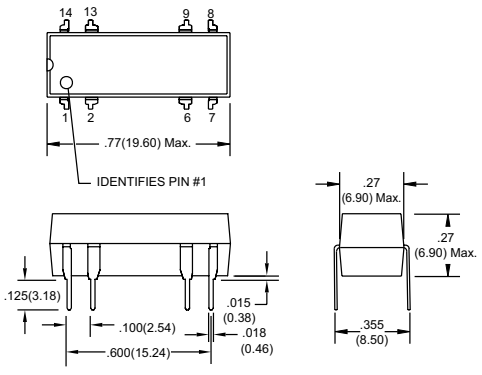
Model 8L01, 8L02 & 8L41



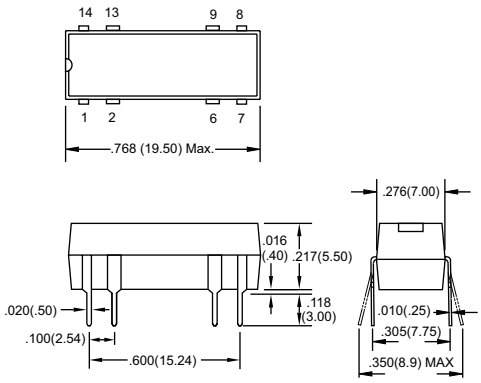
Model 8L61



Alternate Package #1 for 8L01, 8L02 & 8L41



Alternate Package #2 for 8L01, 8L02 & 8L41



Ordering Information

Part Number 8LXX-XX-XX1

Model Number
8L01 8L41 8L61

Coil Voltage
05=5 volts
12=12 volts
24=24 volts

Diode Option[3]
0=No Diode 1=Diode

Shield Option[4]
0=No Shield
1=Electrostatic Shield

Ordering Information

Part Number 8LXX-XX-XX

Model Number
8L02

Coil Voltage
05=5 volts
12=12 volts
24=24 volts

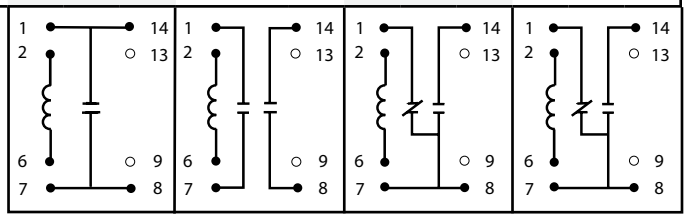
Diode Option[3]
0=No Diode 1=Diode

Shield Option[4]
0=No Shield
1=Electrostatic Shield

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MODEL NUMBER			8L01[2,3,4]			8L02[2,3,4]			8L41[2,3,4]			8L61[2,3,4,5]		
Parameters	**Test Conditions**	**Units**	**1 Form A**			**2 Form A**			**1 Form C**			**1 Form C**		
COIL SPECS.														
Nom. Coil Voltage		VDC	5	12	24	5	12	24	5	12	24	5	12	24
Max. Coil Voltage		VDC	6.5	15	32	6.5	15	32	6.5	15	32	6.5	15	32
Coil Resistance	+/- 10%, 25° C	Ω	500	500	2150	200	500	2000	200	500	2000	200	500	2000
Operate Voltage	Must Operate by	VDC - Max.	3.8	9.6	19.2	3.8	9.6	19.2	3.8	9.6	19.2	3.8	9.6	19.2
Release Voltage	Must Release by	VDC - Min.	0.5	1.0	2.0	0.5	1.0	2.0	0.5	1.0	2.0	0.5	1.0	2.0
CONTACT RATINGS														
Switching Voltage	Max DC/Peak AC Resist.	Volts	200			200			100			100		
Switching Current	Max DC/Peak AC Resist.	Amps	0.5			0.5			0.25			0.25		
Carry Current	Max DC/Peak AC Resist.	Amps	1.0			1.0			0.5			0.5		
Contact Rating	Max DC/Peak AC Resist.	Watts	10			10			3			3		
Life Expectancy-Typical[1]	Signal Level 1.0V, 10mA	x 10^6 Ops.	500			500			100			100		
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.150			0.150			0.200			0.200		
Dynamic Contact Resistance (max. init.)	50mV, 50mA at 100 Hz, 1.5 msec	Ω	N/A			N/A			N/A			N/A		
RELAY SPECIFICATIONS														
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10^{10}			10^{10}			10^9			10^9		
Capacitance - Typical Across Open Contacts	No Shield Shield Floating Shield Guarding	pF pF pF	0.5 1.0 0.5			0.5 0.5 0.2			1.5 1.5 1.0			1.5 1.5 1.0		
Open Contact to Coil	No Shield Shield Floating Shield Guarding	pF pF pF	1.5 2.0 0.5			1.5 2.0 0.5			1.5 2.0 0.5			1.5 2.0 0.5		
Contact to Shield	No Shield Shield Floating Shield Guarding	pF	2.0			1.5			2.0			2.0		
Dielectric Strength (minimum)	Between Contacts Contacts to Shield Contacts/Shield to Coil	VDC/peak AC VDC/peak AC VDC/peak AC	250 1500 1500			250 1500 1500			200 1500 1500			200 1500 1500		
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5			0.5			1.0			1.0		
Release Time - Typical	No Suppression	msec.	0.5			0.5			1.0			1.0		

Top View:
Dot stamped on top of relay refers to pin #1 location
Grid = .1"x.1" (2.54mm x 2.54mm)



Notes:

[1] Consult factory for life expectancy at other switching loads.
[2] Molded depression on top of relay refers to pin #1 location.
[3] Optional coil suppression diode across pins 2(+) and 6(-).
[4] Optional ES Shield is tied to pin 9.
[5] Surface mount processing temperature: 260°C max for 1 minute dwell time. Temperature measured on lead where lead exits molded package.

Environmental Ratings:

Storage Temp: -35°C to +100°C; *Operating Temp:* -20°C to +85°C;
Solder Temp: 270°C max; 10 sec. max
All electrical parameters measured at 25°C unless otherwise specified.
Vibration: 20 G's to 2000 Hz; *Shock:* 50 G's

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