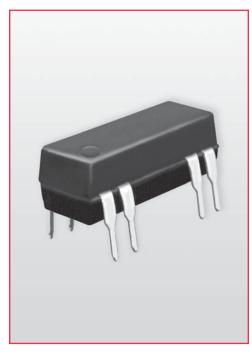
8L Series/Spartan DIP Reed Relays

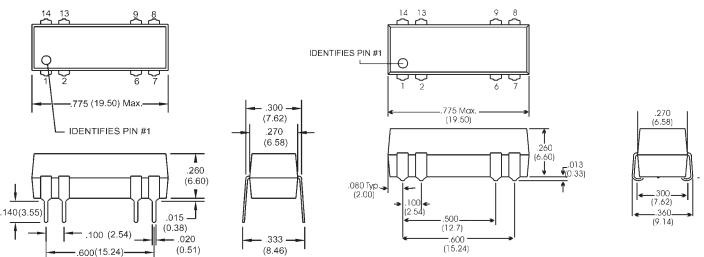


Economy DIP Reed Relays

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, 1B 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



(For Model #'s 8L01, 8L02, 8L21 & 8L41)

(For Model #8L61)

Dimensions in Inches (Millimeters)



8L Series/Spartan DIP Reed Relays

Model Number			8L01 ^{2,3,4}	8L02 ^{2,3,4}	8L21 ^{2,3,4}	8L41 ^{2,3,4}	8L61 ^{2,3,4,5}
Parameters	Test Conditions	Units	1 Form A	2 Form A	1 Form B	1 Form C	1 Form C
COIL SPECS.							SMD
Nom. Coil Voltage		VDC	5 12 24	5 12 24	5 12 24	5 12 24	5 12
Max. Coil Voltage		VDC	6.5 15 32	6.5 15 32	6.5 15 32	6.5 15 32	6.5 15
Coil Resistance	+/- 10%, 25° C	Ω	500 500 2150	200 500 2000	200 500 2000	200 500 2000	200 500
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	3.8 9.6
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	0.5 1.0
CONTACT RATINGS							
Switching Voltage	Max DC/Peak AC Resist.	Volts	200	200	200	100	100
Switching Current	Max DC/Peak AC Resist.	Amps	0.5	0.5	0.5	0.25	0.25
Carry Current	Max DC/Peak AC Resist.	Amps	1.0	1.0	1.0	0.5	0.5
Contact Rating	Max DC/Peak AC Resist.	Watts	10	10	10	3	3
Life Expectancy-Typical ¹	Signal Level 1.0V,10mA	$\times 10^6$ Ops.	500	500	500	100	100
Static Contact Resistance	50mV, 10mA	Ω	0.150	0.150	0.150	0.200	0.200
(max. init.)	, 101111						
Dynamic Contact	0.5V, 50mA	Ω	N/A	N/A	N/A	N/A	0.250
Resistance (max. init.)	at 100 Hz, 1.5 msec						
RELAY SPECIFICATIONS							
Insulation Resistance	Between all Isolated Pins	Ω	x 10 ¹⁰	x 10 ¹⁰	109	x 10 ⁹	x 10 ⁹
(minimum)	at 100V, 25°C, 40% RH	7.7	X 10**	x 10°	x 10 ⁹	x 10°	x 10°
Capacitance - Typical	No Shield	pF	0.5	0.5	0.5	1.5	1.5
Across Open Contacts	Shield Floating	pF	1.0	0.5	0.5	1.5	1.5
	Shield Guarding	pF	0.5	0.2	0.2	1.0	1.0
Open Contact to Coil	No Shield	pF	1.5	1.5	2.5	1.5	1.5
	Shield Floating	pF	2.0	2.0	2.0	2.0	2.0
	Shield Guarding	pF	0.5	0.5	1.5	0.5	0.5
Contact to Shield	Contacts Open, Shield Floating						
		pF	2.0	1.5	2.0	2.0	2.0
Dielectric Strength	Between Contacts	VDC/peak AC	250	250	250	200	200
(minimum)	Contacts to Shield	VDC/peak AC	1500	1500	1500	1500	1500
	Contacts/Shield to Coil	VDC/peak AC	1500	1500	1500	1500	1500
Operate Time - including	At Nominal Coil Voltage,						
bounce - Typical	30 Hz Square Wave	msec.	0.5	0.5	0.5	1.0	1.0
Release Time - Typical	No Suppression	msec.	0.5	0.5	0.5	1.0	0.5
	Diode Suppression	msec.	1.0	1.0	1.0	1.5	1.5
Top Vio Dot stamped on top of relay refers to pin #1 locat		Top View:	14 2 13	14 2 13	14 2 13	14 2 13	1 4 2 3 3

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

Notes:

- ¹Consult factory for life expectancy at other switching loads.
- ²Molded Depression on top of relay refers to pin #1 location.
- ³Optional coil suppression diode across pins 2(+) and 6(-).
- ⁴Optional ES Shield is tied to pin 9.
- ⁵Surface mount processing temperature: 438°F (226°C) max for 1 minute dwell time. Temperature measured on leads where lead exits molded package. Through-hole component processing temperature: 518°F (270°C) max; 10 seconds max.

Environmental Ratings:

Storage Temp: -35°C to +100°C; Operating Temp: -20°C to +85°C The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4%/°C as the ambient temperature varies.

Vibration: 20 G's to 2000 Hz; Shock: 50 G's