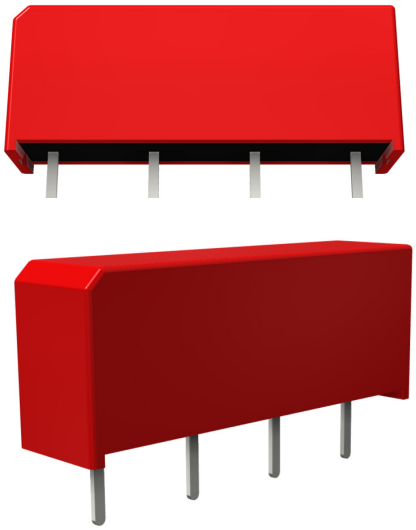
9006 SERIES POTTED SIP REED RELAYS



9006 Series Potted SIP Reed Relays

The Potted SIP relay is the industry choice for designs where economy and a great performance are desired in the same compact package.

The 9006 Series is a general-purpose economy potted version of the 9001 for applications with lower requirements.

These relays are well suited for applications in Security, Instrumentation and Modems. The specification tables enable selection of the appropriate relay for your application.

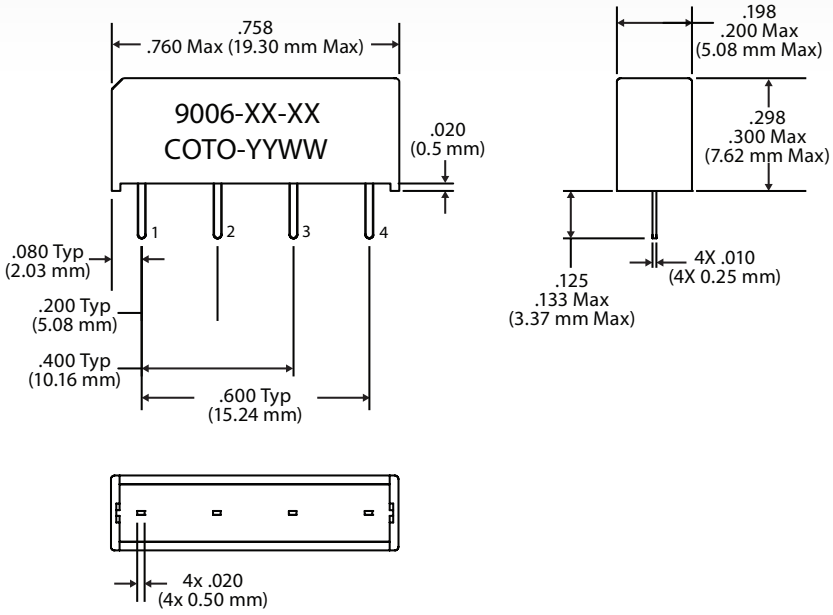
9000 Series Features

- High Insulation Resistance ($10^{12}\Omega$ minimum)
- Hermetically sealed contacts for long life (Tested up to Half a Billion Operations)
- High speed switching compared to electromechanical relays
- Optional Coil Suppression Diode - protects coil drive circuits
- UL File #E67117; Contact factory for details
- RoHS compliant

DIMENSIONS

in Inches (Millimeters)

Model 9006



Ordering Information

Part Number 9006-XX-XX

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

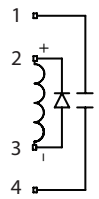
General Options
00 = No Diode
01 = Diode

01212020

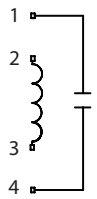
tel: (401) 943.2686 | fax: (401) 942.0920

MODEL NUMBER			9006-05-XX			9006-12-XX			9006-24-XX		
Parameters	**Test Conditions**	**Units**	**MIN**	**NOM 5V**	**MAX**	**MIN**	**NOM 12V**	**MAX**	**MIN**	**NOM 24V**	**MAX**
COIL SPECS.											
Coil Voltage		VDC		5.0	6.5		12.0	15.0		24.0	32.0
Coil Resistance	Standard	Ω	450	500	550	900	1000	1100	1800	2000	2200
Operate Voltage	Must Operate by	VDC			3.75			9.0			18.0
Release Voltage	Must Release by	VDC	0.4			1.0			2.0		
CONTACT RATINGS											
Switching Voltage		VDC			200			200			200
Switching Current		ADC			0.5			0.5			0.5
Carry Current		ADC			1.0			1.0			1.0
Contact Rating	Switching	WDC			10			10			10
Life Expectancy-Typical[1]	Typical	x 10^6 Ops.		500			500			500	
Static Contact Resistance	Initial	Ω			.0200			0.200			0.200
RELAY SPECIFICATIONS											
Insulation Resistance	Between all Isolated Pins	Ω	10^{12}			10^{12}			10^{12}		
Capacitance Typical	Across Open Contacts	pF		0.7			0.7			0.7	
	Open Contact to Coil			1.4			1.4			1.4	
Dielectric Strength	Between Contacts	DC/PEAK AC	250			250			250		
	Contact to Shield						NA				
	Contact to Coil		250			250			250		
Operate Time	Including Bounce	mSEC		0.5			0.5			0.5	
Release Time	Zener Diode Suppression	mSEC		0.2			0.2			0.2	

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



with Diode



without Diode

Notes:

[1] Consult factory for life expectancy at other switching loads.
[2] Optional diode is connected to pin #2(+) and pin #3(-). Correct coil polarity must be observed.
[3] This product is not qualified for reflow soldering process.

Environmental Ratings:

Storage Temp: -35°C to +100°C; *Operating Temp:* -20°C to +85°C; *Solder Temp:* 270°C max at relay terminals & 160°C max at relay package @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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