COMUS Relays

Part Number: 3570 1339
Instrumentation Grade SIP - 1 Form A - High Power
Product Data Sheet

UP TO 20 WATTS

PICTURE

✔RoHS Compliant

FEATURES

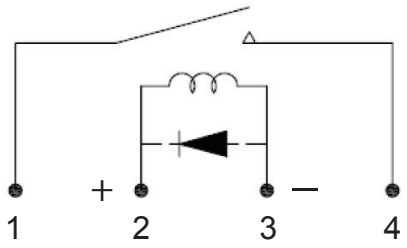
- High Reliability Instrumentation Grade COTO TECHNOLOGY reed switch with sputtered Ruthenium contacts.
- SIP 1 Form A, up to 20 Watt dry reed relays.
- Ideal for test and instrumentation applications.
- High Insulation Resistance : 10^{12} Ω MIN
- Molded thermoset industry standard package.
- Optional internal coil suppression diode.

ORDERING INFORMATION

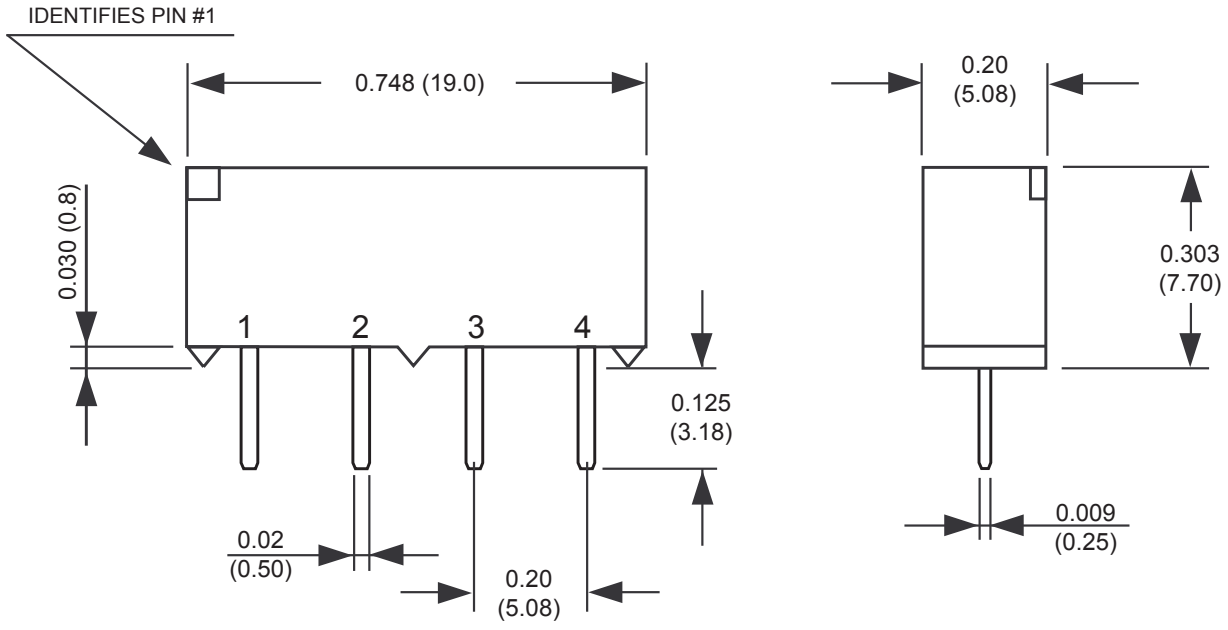
Series	Coil	Options
3570.1339.	05	1 = no diode
	12	3 = with diode

Part Number Example: 3570.1339.xxx
3570.1339.051 = 5 volt coil, no diode

SCHEMATIC



DIMENSIONS



Drawings not to scale.
All dimensions in inches (mm) nominal.

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Rev: 1 - Date: Mar/15/2018 - Signature: BR

An ISO 9001 Certified Company

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COIL DATA-STANDARD TYPE 1 FORM A (at 20˚C)

NOMINAL COIL VOLTAGE (VDC)	NOMINAL COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MIN RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	500	3.75	0.8	7
12	1000	9	1	16

CONTACT RATING

Max Switching Power	15 W (5V), 20 W (12V)
Max Switching Voltage	200 VDC
Max Switching Current	1.0 A
Max Carry Current	1.25 A

SPECIFICATION

Contact Resistance (Initial)	MAX 150 mΩ
Operate Time - including bounce (Typical)	0.35 ms (At Nominal Voltage)
Release Time (Typical)	0.1 ms
Insulation Resistance @ 100V, 20°C, 40% RH (MIN)	10^{12} Ω
Dielectric Strength (MIN)	Between Open Contacts 200 V DC / peak AC Between Coil to Contacts 1500 V DC / peak AC
Capacitance Between Open Contacts (Typical)	0.5 pF
Vibration	20G
Shock	50G
Operating Temperature	-40° +85°C
Storage Temperature	-40° +100°C
Life Expectancy at Specified Load (Typical)	1000 x 10^6 ops (1 VDC, 10mA)

SOLDERING THROUGH-HOLE

The attachment method is typically eutectic soldering. RoHS requires solder with no elemental lead (Pb). SAC alloy (96,5Sn / 3AG / 0,5Cu) is the most popular choice. Reed relays can be soldered by hand or by wave solder processing. Comus International recommends the maximum wave solder temperature (measured at the reed relay leads) as 270°C for 10 seconds. Temperature and time in excess of the recommended levels may result in damage to the reed relay. All of our through-hole reed relays will be compatible with either SAC alloy or eutectic soldering process.

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