COMUS Relays

Part Number: 3570 1411 Series
Instrumentation Grade Mini SIP - 1 Form A
Product Data Sheet

PICTURE

✔RoHS Compliant

FEATURES

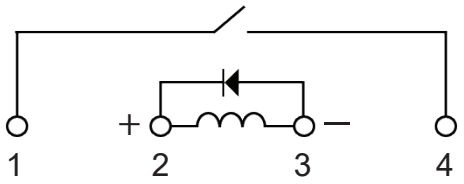
- High Reliability Instrumentation Grade COTO TECHNOLOGY® reed switch with sputtered Ruthenium contacts.
- 10 W Mini SIP (40% smaller than 3570-1333 series)
- Magnetic shield-reduces interaction (option).
- Coil suppression diode protects coil drive circuits (option).
- High Insulation Resistance: 10^{12} Ω MIN
- High board density.
- Molded thermoset industry standard package.
- Hermetically sealed contacts for long life.
- UL File E125629 c UL us

ORDERING INFORMATION

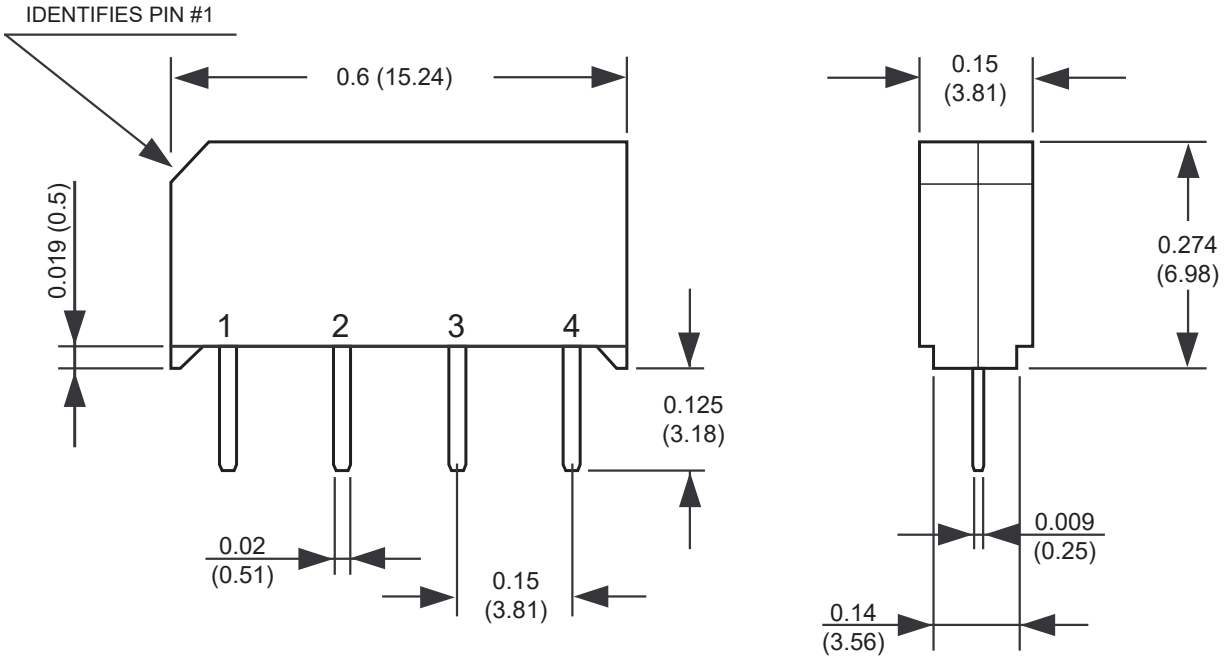
Series	Coil	Options
3570.1411.	05 12	1 = no diode 2 = internal magnetic shield 3 = with diode 4 = internal magnetic shield + diode

Part Number Example: 3570.1411.xxx
3570.1411.051 = 5 volt coil, no diode

SCHEMATIC



DIMENSIONS



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

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

NOMINAL VOLTAGE DC±10%[V]	COIL RESISTANCE ±10% (Ω)	MAX OPERATE VOLTAGE (VDC)	MIN RELEASE VOLTAGE (VDC)	MAX COIL VOLTAGE (VDC)
5	500	3.75	0.4	7
12	1000	9.0	1.0	16

CONTACT RATING

Max Switching Power	10 W
Max Switching Voltage	200 VDC
Max Switching Current	0.5 A
Max Carry Current	1.5 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 Resistance	50G
Operating Temperature	-40° +85°C
Storage Temperature	-40° +100°C
Life Expectancy of Electrical	1000 x10^6ops (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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