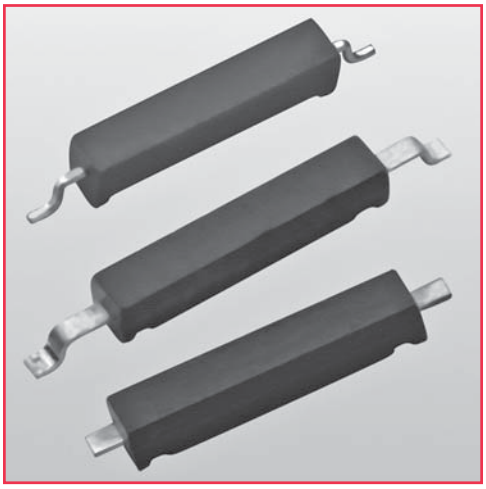
CT10 Series Molded Switch



CT10 Series

The CT10 is a molded dry reed switch. It is single-pole, single throw (SPST) type, having normally open ruthenium contacts.

The sensor is a double-ended type and may be actuated with an electromagnet, a permanent magnet or a combination of both.

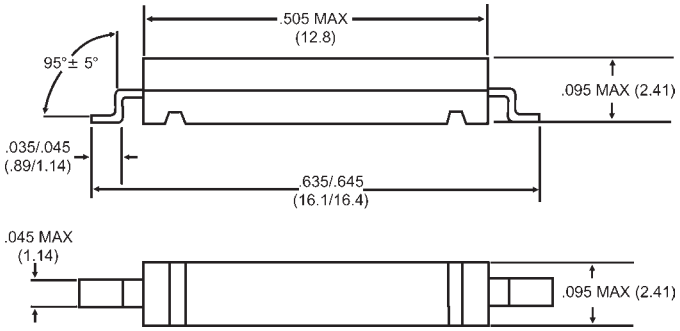
The device is designed for SMD mounting and is available in three lead configurations.

CT10 Series Features

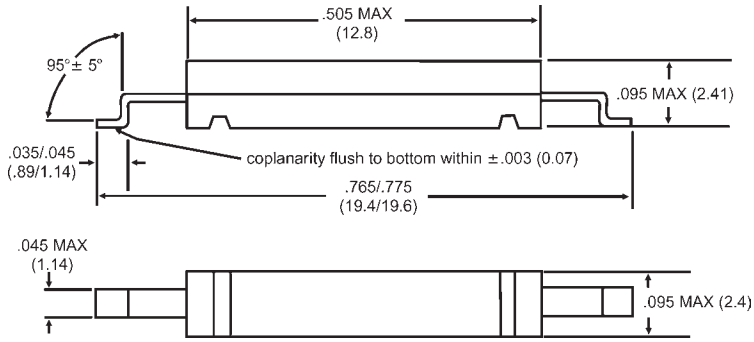
- Ideal for SMD pick and place
- Tape and reel packaging
- 10W rating
- Rugged encapsulation
- Excellent life and reliability

Applications:

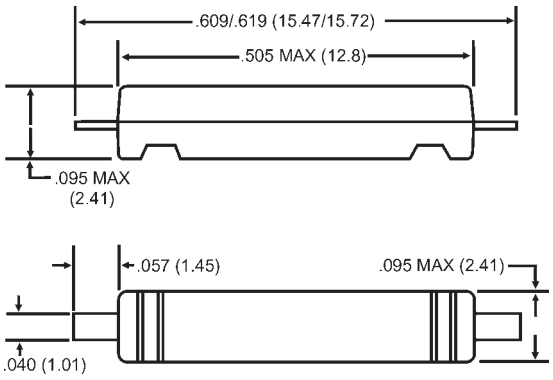
- Proximity Sensor
- Security Alarm Sensor
- Level Sensor
- Flow Sensor
- Pulse Counter



CT10-XXXX-G1



CT10-XXXX-G4



CT10-XXXX-A2

Dimensions in Inches (Millimeters)

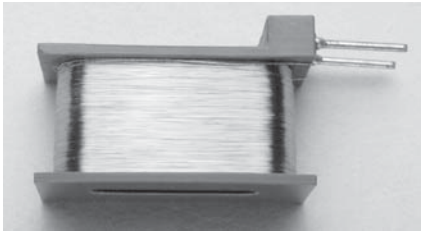
ORDERING INFORMATION

A complete part number is represented by the digits to the right of the CT10 series prefix followed by a suffix as shown below.

Example: CT10-1030-G1 is
-- a CT10 sensor (10mm encapsulated switch)
-- with a sensitivity range from 10 to 30AT
-- lead ends are formed according to the G1 version
* CT10XXXX (0001-1999) without a suffix is a customer special.

CT10-XXXX-YY

- **Lead Configuration Subset:**
  - **G1** for Gull Wing version 1
  - **G4** for Gull Wing version 2
  - **A2** for Axial
- **AT Range** (after mold & lead form)
- **Series**



Test Coil

The Magnetic sensitivity of the CT10 sensors is defined in the 10k-JK coil

CT10 Series Molded Switch

Model Number		CT10-XXXX-G1	CT10-XXXX-G4	CT10-XXXX-A2
Parameters	**Units**			
OPERATING CHARACTERISTICS				
Operate Range	AT	10-40	10-30	10-40
Release Range	AT	3-35	3-25	3-35
ELECTRICAL CHARACTERISTICS				
Switched Power (max)	W	10	10	10
Switched Voltage DC (max)	V	200	200	200
Switched Voltage AC, RMS value (max)	V	140	140	140
Switched Current DC (max)	mA	500	500	500
Switched Current AC, RMS value (max)	mA	500	500	500
Carry Current DC (max)	A	0.5	0.5	0.5
Breakdown Voltage (min)	V	230	230	230
Contact Resistance (initial max)	m Ω	150	150	150
Contact Resistance (initial typ.)	m Ω	100	100	100
Insulation Resistance (min)	MΩ	10^{6}	10^{6}	10^{6}
ENVIRONMENTAL RATINGS				
Storage Temperature	°C	-40 to + 125	-40 to + 125	-40 to + 125
Operating Temperature	°C	-40 to + 125	-40 to + 125	-40 to + 125
Soldering Temperature	°C	260 [1]	226 [2]	226 [2]
Vibration	G	10	10	10
Shock	G	100	100	100

*Specifications are based on standard switch. Contact factory for other possibilities.

Notes:

[1]Surface mount component processing temperature: 500°F(260°C) max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.

[2]Surface mount component processing temperature: 438°F(226°C) max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.