# CT10 SERIES ENCAPSULATED MOLDED SWITCH



#### **CT10 Series**

The CT10 is an encapsulated 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.

\* NEW CT10-G2 now 260 °C process temperature hardy.

#### **CT10 Series Features**

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



#### **APPLICATIONS**

- ▶ Proximity Sensing
- ► Security Alarm Sensor
- ▶ Level Sensor
- ▶ Flow Sensor
- ▶ Pulse Counter

MODEL NUMBER		CT10-XXXX-YY
Parameters	Units	
OPERATING CHARACTERISTICS		
Operate Range	AT	10-40
Release Range	AT	3-35
ELECTRICAL CHARACTERISTICS		
Switched Power (max)	W	10
Switched Voltage DC (max)	V	200
Switched Voltage AC, RMS value (max)	V	140
Switched Current DC (max)	mA	500
Switched Current AC, RMS value (max)	mA	500
Carry Current DC (max)	Α	0.5
Breakdown Voltage (min)	V	230
Contact Resistance (initial max)	$m\Omega$	200
Insulation Resistance (min)	$\Omega$ M	106
ENVIRONMENTAL RATINGS		
Storage Temperature	°C	-40 to + 125
Operating Temperature	°C	-40 to + 125
Vibration Temperature	G	10
Shock Resistance	G	100

## **NOTES**

- ▶ AT values measured using a Philips 10JK coil.
- Surface mount component processing temperature Model G1 & G2: 500°F(260°C) max for 1 minute dwell time; Model G4 & A2: 439°F(226°C) max for 1 minute dwell time.
- ▶ Temperature measured on leads where lead exits molded package.

96 page tel: (401) 943.2686 fax: (401) 942.0920

# DIMENSIONS in Inches (Millimeters) CT10-XXXX-G1 CT10-XXXX-G2 .505 (12.8mm) .505 (12.8mm) .115 (2.92mm) .115 (2.92mm) .035/.045 .006 (0.15mm) <sup>→</sup> .006 (0.15mm) -.035/.045 (.089/1.14mm) (.089/1.14mm) .645 (16.4mm) .77 (19.6mm) .095 (2.41mm) .095 (2.41mm) .040 (1.0mm) .040 (1.0mm) CT10-XXXX-G4 CT10-XXXX-A2 .505 (12.8mm) .619 (15.72mm) .505 (12.8mm) .115 (2.92mm) .006 (0.15mm) <sup>→</sup> .035/.045 (.089/1.14mm) .77 (19.6mm) .115 (2.92mm) .095 (2.41mm)

.040 (1.0mm)

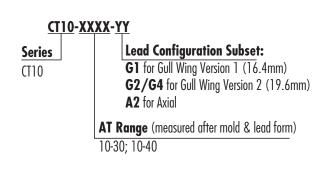
### **ORDERING INFORMATION**

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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



.095 (2.41mm)

.040 (1.0mm)