# **CT05 SERIES MOLDED SWITCH**



### **CT05 Series**

The CT05 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 Gull Wing or J-lead configurations.

### **CT05 Series Features**

- ▶ Ideal for SMD pick and place
- ▶ Tape and reel packaging
- ▶ 5W rating
- Rugged encapsulation
- Excellent life and reliability
- RoHS compliant

### APPLICATIONS

- Proximity Sensing
- Medical Applications
- Hearing Aids
- Pulse Counter

MODEL NUMBER		CT05-XXXX-G1	CT05-XXXX-J1
Parameters	Units		
OPERATING CHARACTERISTICS			
Operate Range	AT	15-50	15-50
Release Range	AT	5-45	5-45
ELECTRICAL CHARACTERISTICS			
Switched Power (max)	W	5	5
Switched Voltage DC (max)	V	140	140
Switched Voltage AC, RMS value (max)	V	100	100
Switched Current DC (max)	mA	350	350
Switched Current AC, RMS value (max)	mA	250	250
Carry Current DC (max)	А	0.5	0.5
Breakdown Voltage (min)	V	230	230
Contact Resistance (initial max)	m $\Omega$	160	160
Contact Resistance (initial typ.)	m $\Omega$	140	140
Insulation Resistance (min)	MΩ	10 <sup>6</sup>	10 <sup>6</sup>
ENVIRONMENTAL RATINGS			
Storage Temperature	°C	-40 to + 125	-40 to + 125
Operating Temperature	۰C	-40 to + 125	-40 to + 125
Vibration Resistance	G	10	10
Shock Resistance	G	100	100

### NOTES

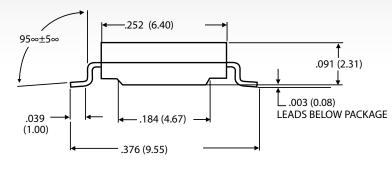
- ► AT values measured using a Philips 10JK coil.
- ▶ Surface mount component processing temperature: 500°F(260°C) max for 1 minute dwell time.
- ▶ Temperature measured on leads where lead exits molded package.

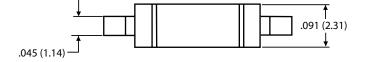
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## DIMENSIONS

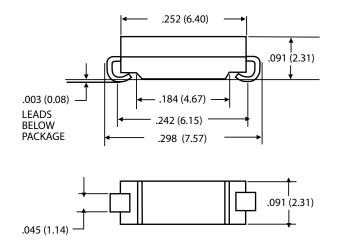
max Inches (Millimeters)







### CT05-XXX-J1

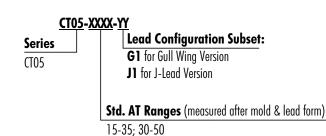


### **ORDERING INFORMATION**

A complete part number is represented by the digits to the right of the CT05 series prefix followed by a suffix as shown below.

### EXAMPLE: CT05-3050-G1 is

- ▶ a CT05 sensor (5mm encapsulated switch)
- ▶ with a sensitivity range from 30 to 50AT
- lead ends are formed according to the G1 version
- ► CT05-XXXX (0001-1999) without a suffix is a customer special.



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