



# DELAY ON OPERATE-FIXED SOLID STATE OUTPUT

**C6001**  
**C.O.T.S.**  
**M83726/13**

## FEATURES:

- Reverse Polarity Protection
- 300 mA Output Current
- CMOS Digital Design
- Voltage Surge Protection

## ELECTRICAL SPECIFICATIONS:

**Timing delay:** Fixed time — 50 milliseconds to 600 seconds.

**Timing accuracy:**  $\pm 10$  percent of the nominal timing under all conditions of input voltage and environmental extremes.

### Recycle characteristics:

**Before time out:** A power interruption of 10 ms or more will initiate a new timing cycle.

**After time out:** A power interruption of 10 ms or more will initiate a new timing cycle.

### Input Data:

**Input voltage:** 28 V dc nominal; range 18 to 31 V dc.

**Current drain:** 10 milliamperes maximum, plus load current.

**Reverse polarity protection:** The timer will not be damaged or operate when input voltage polarity is reversed.

### Output Data:

**Configuration:** SPSTNO — Solid state switch closure to ground.

### Load ratings:

**Resistive:** 300 milliamperes @ 25°C, derated to 100 milliamperes @ +125°C. Minimum load current of 10 milliamperes is required.

**Inductive:** Three MIL-R-5757/9 relays. (Any relay with 26.5 V dc coil voltage).

**Lamp load:** Two MS25237-327 lamps per MIL-L-6363.

**Inductive load, ac:** Three MIL-R-39016/6 relays.

**Load suppression:** Suppression for inductive loads for output protection is provided within the unit.

**Voltage drop:** 2.5 volts maximum at -55°C and +25°C, 2.0 volts maximum at +125°C.

**Leakage current:** 1 microampere maximum at 25°C, 10 microamperes maximum at +125°C.

**Insulation resistance:** 1,000 megohms minimum @ 500 V dc. ①

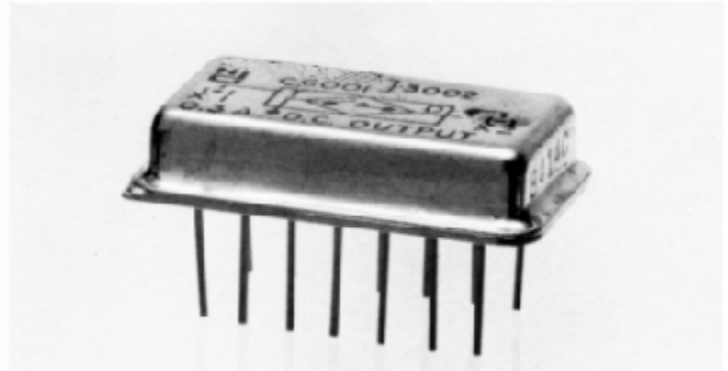
**Dielectric withstanding voltage:** 500 V rms. 60 Hz, (sea level). ①

### Transients:

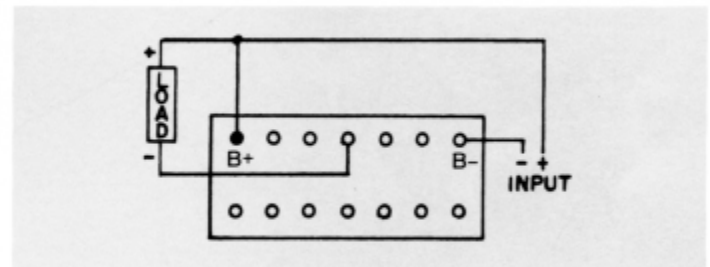
**Voltage surge:** Per MIL-STD-704A, figure 9, limit 1, for category B equipment.

**Self-generated spikes:**  $\pm 10$  V.

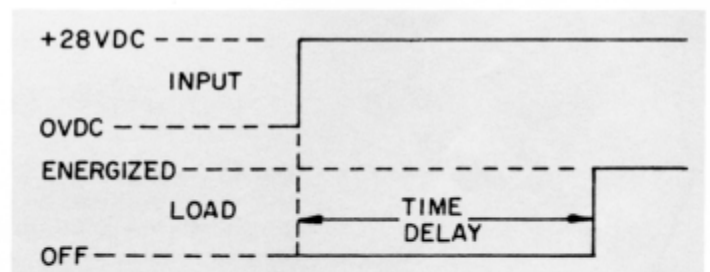
① Measured between all terminals tied together to the case.



## WIRING DIAGRAM



## TIMING DIAGRAM



## ENVIRONMENTAL SPECIFICATIONS:

**Temperature range:** -55° to +125°C.

**Altitude:** 80,000 feet

**Shock:** 150 G's for 11  $\pm 1$  ms half-sine wave.

**Vibration (sinusoidal):** 10-80 Hz at 0.06 inch DA.  
80-3,000 Hz at 20 G's.

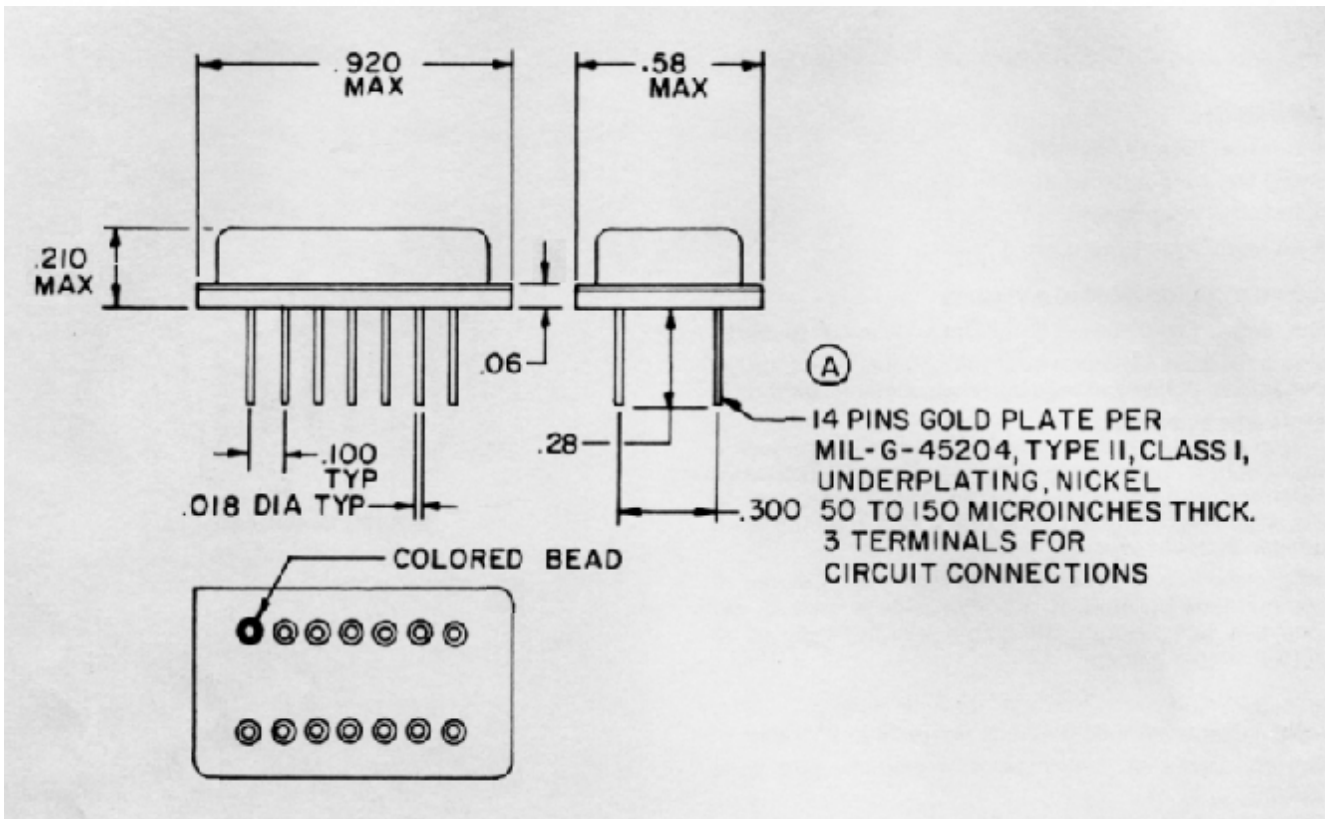
**Seal:** MIL-STD-202, method 112, condition C.

**Weight:** 12 grams max.

## SPECIAL NOTES:

- Always consult military latest spec. for changes and additional information.
- Pin 10 is active — do not connect
- Load is connected between B+ and terminal designated. Delay begins upon application of power to terminals (B+ and (B-)).

## MECHANICAL SPECIFICATIONS



## HOW TO ORDER:

**Timing Code Determination:** The timing code consists of four digits and denotes time in milliseconds. The first three digits are significant figures and the last digit is the number of zeros to follow. Thus 100 milliseconds is coded 1000; 1.1 seconds is 1101 (1100 milliseconds), and 60 seconds is 6002 (60,000 milliseconds).

**Example:**

**Hi-G Part Number**

C6001 — 6002

MODEL NUMBER ————— TIMING CODE

These numbers designate a Solid-State Output Timer with 60 seconds (60,000 milliseconds), time delay operation at 28 VDC.