

Electronics

## **Product Facts**

- Fixed delay on operate timer
- 300mA output
- CMOS digital design
- Voltage surge protection
- Qualified to MIL-R-83726/13

#### **Electrical Specifications**

Timing Range: 50 ms to 600 s. Timing Accuracy:  $\pm 10\%$  of nominal timing under all conditions of input voltage and environmental extremes.

Recycle Characteristics: Before Time Out: A power interruption occuring after the start but before completion of the timing cycle shall be for a duration of 0.5% of the nominal time delay or 10ms, whichever is greater, to ensure a loss in timing of no greater than 10%.

After Time Out: A power interruption of 0.5% of the nominal time delay or 10ms, whichever is greater, will initiate a new timing cycle with a loss in timing of no greater than 5%.

#### Input Data:

**Input Voltage:** 28Vdc, nominal; range 18 to 31Vdc.

**Current Drain (at 25°C, 28Vdc):** 10mA (max.), plus load current.

Reverse Polarity Protection: The timer will not be damaged or operate

when input voltage polarity is reversed.

# Output Data:

**Configuration:** 1 Form A (SPST-NO) solid state switch closure to ground.

#### Load Ratings:

**Resistive:** 300mA @ +25°C, derated to 100mA @ +125°C.

Inductive: Three MIL-R-5757/9 relays (any relay with 26.5Vdc coil).

Lamp Load: Two MS25237-327 lamps per MIL-L-6363. Load Suppression: Suppression for

inductive loads for output protection is provided within the unit.

**Voltage Drop:** 2.5Vdc, max. @  $-55^{\circ}$ C and  $+25^{\circ}$ C; 2.0 Vdc, max., @  $+125^{\circ}$ C.

 $\begin{array}{l} \mbox{Leakage Current: } 1\mu\mbox{A, max. } @ \\ +25^{\circ}\mbox{C, } 10\mu\mbox{A, max. } @ +125^{\circ}\mbox{C.} \end{array}$ 

# Insulation Resistance: 1,000 megohms, min., @ 500Vdc, measured between all terminals tied together to the

case. Dielectric Strength: 500Vrms, 60 Hz., at sea level, measured between all terminals tied together to the case.

#### Transients:

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

Self-generated Spikes: ±10V.

CII 6001 series delay on operate timer modules are miniature devices combining solid state timing circuits with solid state switch outputs in robust hermetically sealed DIP

#### **Timing Diagram**

**Temperature Range:** 

-55°C to +125°C.

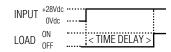
wave

Altitude: 80,000 ft.

300mA.

enclosures. The 1 Form A

(SPST-NO) switch is rated



**Environmental Specifications** 

Shock: 150 G's, 11 ± 1ms half-sine

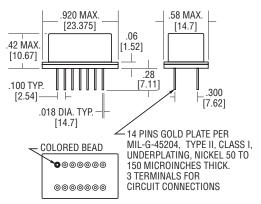
Vibration (sinusoidal): 10 -80 Hz. at

## Part Numbering System

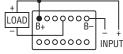
Typical Part Number 6001	-6002	C
Model Number: 6001 = Fixed timer, -55°C to +125°C		
Timing Code: Four-digit code for any value between 50ms and 600s.		
The timing code consists of four digits and gives the time in ms. The first three digits are the significant figures and the last digit is the number of zeros following the significant figures; thus 50 ms would be coded 0500, 1.1 s would read 1101, and 1 m (60 s) would be 6002.		
Optional Suffix: C = Commercial version equivalent to M83726/13.		

A typical part number would be 6001–6002C. This solid state output timing module has a time delay of 60s at 28Vdc and is the commercial equivalent to M83726/13.

#### **Outline Dimensions**



#### Wiring Diagram



PIN 10 IS ACTIVE. DO NOT CONNECT.

#### Special Notes:

- Load is connected between B+ and terminal designated. Delay begins upon application of power to terminals (B+ and B–).
- Always consult latest military specification for changes and additional information.

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-5-729-0425 South America: 55-11-3611-1514 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-141-810-8967 1

0.06 inch DA; 80 - 3,000 Hz. at 20 G's. Sealing: MIL-STD-202, method 112, condition C. Materials: Cover: Nickel. Header: Kovar.

Pins: Kovar, gold plated. Marking: Per MIL-R-83726. Weight: 0.42 oz (12g) max.