

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 occurring 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°C and +25°C; 2.0Vdc, max. @ +125°C.

Leakage Current: 1 μ A, max. @ +25°C, 10 μ A, max. @ +125°C.

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.

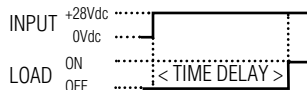
Transients:

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

Self-generated Spikes: ± 10 V.

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 enclosures. The 1 Form A (SPST-NO) switch is rated 300mA.

Timing Diagram



Environmental Specifications

Temperature Range:

-55°C to +125°C.

Altitude: 80,000 ft.

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

Vibration (sinusoidal): 10 - 80 Hz. at 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.

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.

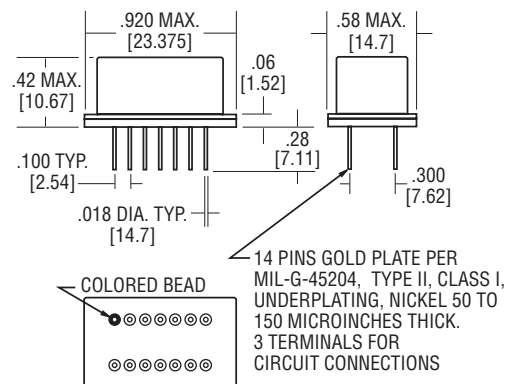
The timing code consists of four digits and gives the time in ms. The first three digits are the significant figures and the last digit is the number of zeros following the significant figures; thus 50 ms would be coded 0500, 1.1 s would read 1101, and 1 m (60 s) would be 6002.

Optional Suffix:

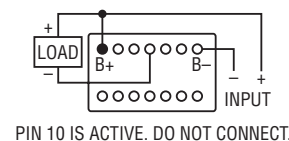
C = Commercial version equivalent to M83726/13.

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



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.

© 2005 by Tyco Electronics Corporation. All Rights Reserved.

CII and TYCO are trademarks.

Other products and company names mentioned herein may be trademarks of their respective owners.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.