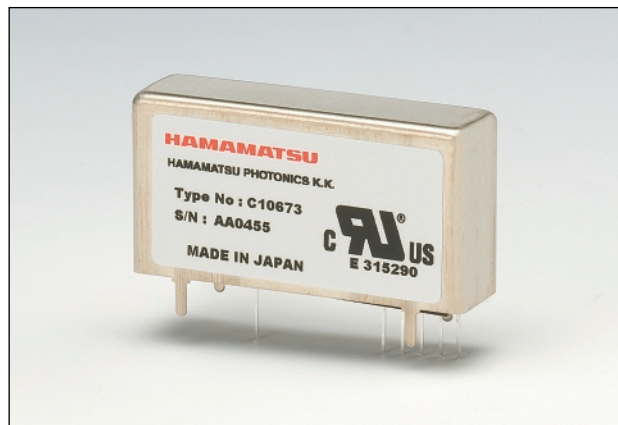


UL recognized (File No. E315290)

The C10673 series is an on-board type high voltage power supply unit, especially designed for photomultiplier tubes.

FEATURES

- UL recognized
- Compact and lightweight
- High stability
- Low power consumption
- Quick response
- Ample protective functions



CE

SPECIFICATIONS

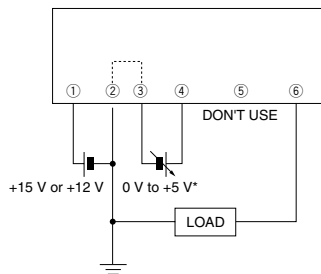
| Parameter | | | C10673 | C10673-01 | Unit |
|---|----------------|------|--|-----------|--------|
| Input Voltage | | | +15 ± 1 | +12 ± 0.5 | V |
| Input Current ^(A) | with no load | Typ. | 15 | 20 | mA |
| | with full load | Typ. | 95 | 100 | |
| Variable Output Range | | | 0 to -1250 | | V |
| Specification Guaranteed Output Voltage Range | | | -200 to -1250 | | V |
| Output Current | | Max. | 0.6 | 0.5 | mA |
| Line Regulation Against ±1 V or ±0.5 V Input Change ^{(A)(B)} | | | Typ. ±0.01 | | % |
| Load Regulation Against 0 % to 100 % Load Change ^(A) | | | Typ. ±0.01 | | % |
| Ripple / Noise (p-p) ^{(A)(B)} | | | Typ. 0.01 % (125 mV) | | — |
| Output Voltage Control | | | By external controlling voltage (0 V to +5 V) or external potentiometer (50 kΩ) | | — |
| Controlling Voltage Input Impedance | | Typ. | 80 | | kΩ |
| Reference Voltage Output | | Typ. | +5.13 V | | — |
| Output Voltage Setting (Absolute Value) | | Typ. | Controlling voltage × 250 | | V |
| Output Voltage Rise Time (0 % → 99 %) ^{(A)(B)} | | | Typ. 150 | | ms |
| Temperature Coefficient ^{(A)(B)} | | | Typ. ±0.015 | | % / °C |
| Operating Ambient Temperature ^{(A)(B)} | | | 0 to +40 | | °C |
| Operating Ambient Humidity ^(C) | | | Below 80 % | | — |
| Storage Temperature | | | -20 to +60 | | °C |
| Storage Humidity ^(C) | | | Below 80 % | | — |
| Weight | | Typ. | 31 | | g |
| Protective Functions | | | Units protected against reversed power input, reversed / excessive controlling voltage input, continuous overloading / short circuit in output | | — |

NOTE: ^(A)At maximum output voltage.
^(B)At maximum output current.
^(C)No condensation.

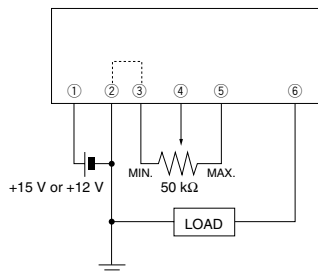
COMPACT HIGH VOLTAGE POWER SUPPLY C10673 SERIES

Figure 1: Connection Diagrams

● Output Voltage Control By External Voltage



● Output Voltage Control By External Potentiometer



PIN ASSIGNMENT

- ① Vcc +15 V or +12 V
- ② GND
- ③ Vcont GND
- ④ Vcont
- ⑤ Vref +5.13 V Typ.
- ⑥ HV OUT

- The housing is internally connected to pin ②.
- Pins ② and ③ are internally connected.

TACCC0049ED

Figure 2: Output Voltage Controlling Characteristic

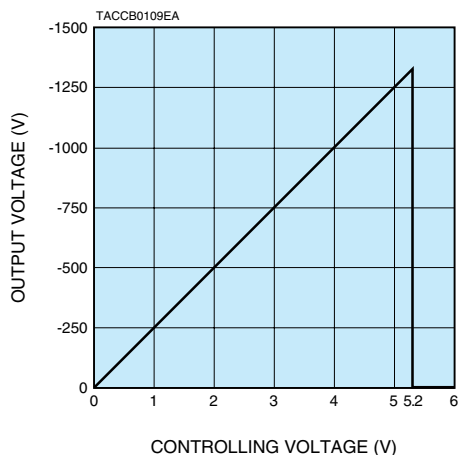
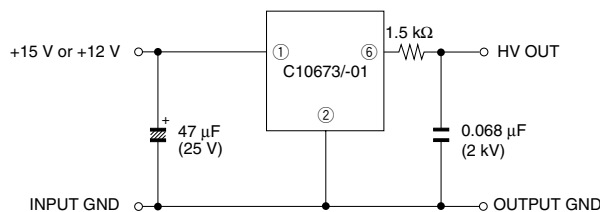


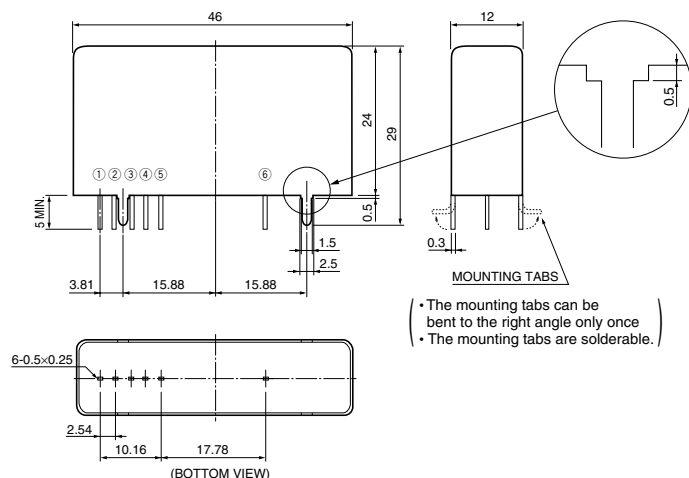
Figure 3: Example of Ripple / Noise Reduction Circuit



- * The ripple / noise can be halved by adding capacitors as illustrated above.

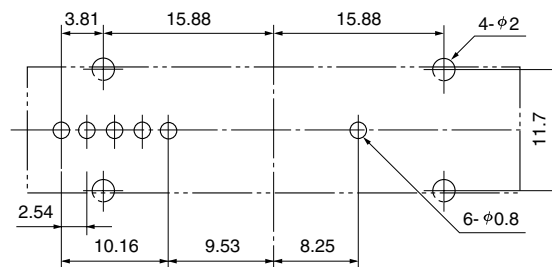
TACCC0143EA

Figure 4: Dimensional Outline (Unit: mm)



TACCA0157EC

Drilling Data for PC Board (Soldering Face)



TACCA0159EB

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