

High Voltage Power Supplies



HPM-C Series 0.8kV to 3kV 1.5W

E[00.005.06] 1A(31)-1



FEATURES

- PCB mountable
- Low ripple, high stability, and well-regulated output
- Low Noise due to 6-sided metal shielding
- A wide range of input voltage(+11Vdc to +16Vdc)
- External potentiometer or external control voltage programming
- Arc and continuous short circuit protection

SUMMARY

HPM-C Series is a compact, ultra low ripple and well regulated high voltage power supply suitable for various OEM or laboratory application.

Electromagnetic shielding is provided through 6-sided metal shielding.

All models are provided with arc and continuous short circuit protection for safe, reliable operation.

LINEUP

Output voltage (kVdc)	Output		Model		Ripple (mVp-p)
	Output current (mA)	Minimum load*(Ω)	Positive polar output	Negative polar output	
0 to 0.8	2	200k	HPM-0.8PC	HPM-0.8NC	2
0 to 1.1	1.5	370k	HPM-1.1PC	HPM-1.1NC	
0 to 1.5	1	750k	HPM-1.5PC	HPM-1.5NC	3
0 to 2	0.8	1.25M	HPM-2PC	HPM-2NC	7
0 to 3	0.5	3M	HPM-3PC	HPM-3NC	20

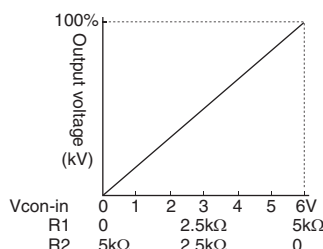
*Rated output current is not to be drawn at low output voltage range(Output current × Minimum load). Operate with over Minimum load.

NOTE For extra safety ground the case and ②terminal when operation.

SPECIFICATIONS

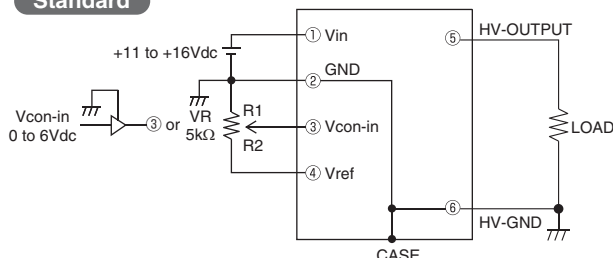
Input voltage/current	+11 to +16Vdc 250mA max 280mA max (-L2S option)
Output control	By external 5kΩ potentiometer or external control voltage(Vcon-in) 0 to 6 Vdc
Regulation	Line : ±100ppm of max voltage for Vin +12V±1V Load : 100ppm of max voltage for full load change
Stability	100ppm/Hr 300ppm/8Hr
Temperature coefficient	50ppm / °C (-LTc option : 25ppm / °C)
Output voltage accuracy	±2%(Vcon-in = 6V)
Protection	Overcurrent(Limit output current with dropping output voltage), continuous output short circuit
Temperature range	Operating : -10°C to +50°C Storage : -25°C to +85°C
Humidity	20 to 80%RH(no condensation)
Weight	120g approx.
Accessory	Insulation sheet

CHARACTERISTICS OF OUTPUT VOLTAGE SETTING



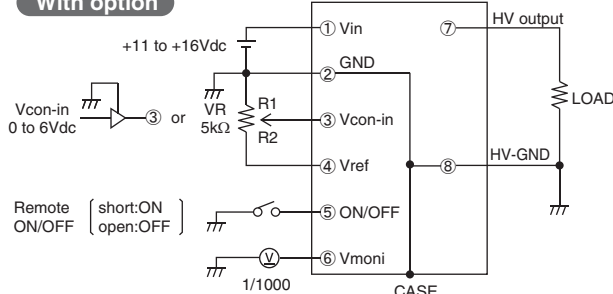
CONNECTION DIAGRAM

Standard



- PIN ②, ⑥ and case are internally connected.
- Input impedance of Pin ③ is greater than 30KΩ
- External potentiometer of T.C ≤ 100ppm/°C, PC ≥ ¼W is recommended.

With option

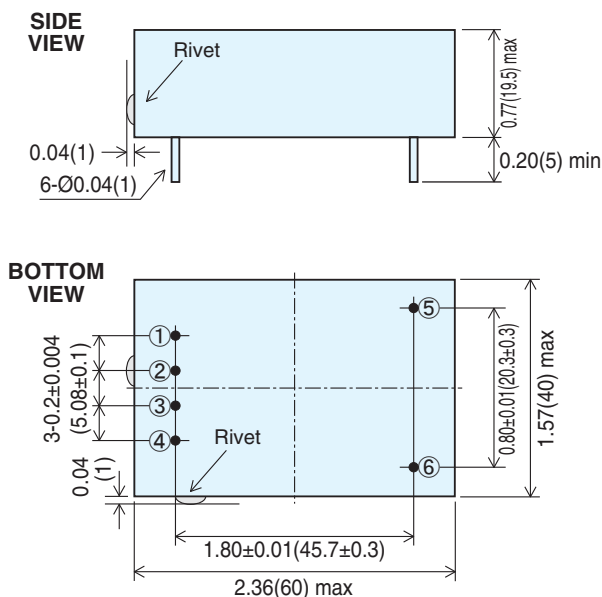


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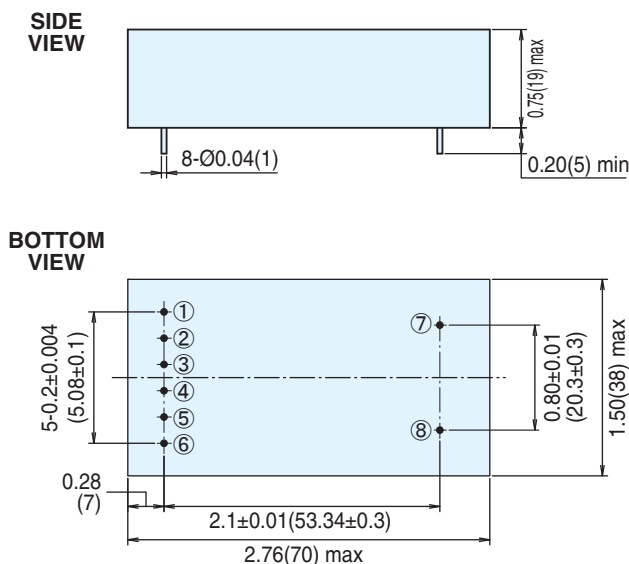
DIMENSIONS inch(mm)

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【 Standard 】



【 Option 】



OPTION

-L2S Output voltage monitor, Remote switch ON/OFF
 Voltage dividing ratio 1000 : 1 Accuracy 2%
 Impedance of voltmeter shall be more than 10MΩ
 HV ON/OFF is possible with contact signal.

-LTc Temperature coefficient. is 25ppm/°C.
 Applicable only for model with -L2S

*Suffix “-L2S” or “-L2STc” to the model number.

ex. HPM-2PC-L2STc
 HPM-3PC-L2S

Warranty

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