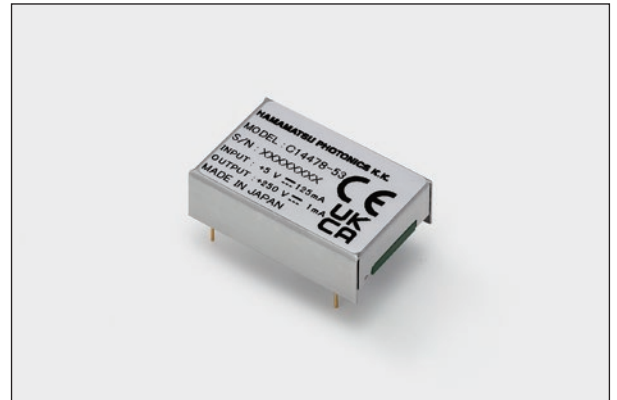


C14478-53 is a PC-board mountable power supply module with a regulator. Linear and highly accurate output in the range of +10 V to +250 V.

## FEATURES

- Compact size: 26 mm(W) x 8 mm(H) x 17 mm(D)
- Lightweight: 6 g
- High output accuracy
- Low ripple / noise
- High stability
- Safety standard IEC61010-1 conformed



## APPLICATIONS

- Semiconductor element (Photodiode, Avalanche photodiode)
- Radiation detection (CdTe, CZT)
- For bias voltage supply

## SPECIFICATIONS

Parameter	Description / Value	Unit
Input voltage	+4.75 to +5.25	V
Input current <sup>①②</sup>	Max. 125	mA
Specification guaranteed output voltage range	+10 to +250	V
Output voltage accuracy <sup>①②</sup>	Typ. ±0.5	%
Output current	Max. 1	mA
Response time <sup>①②③</sup>	Typ. 40	ms
Line regulation <sup>①②④</sup>	Typ. ±0.01	%
Load regulation <sup>①⑤</sup>	Typ. ±0.01	%
Temperature coefficient <sup>①②</sup>	Typ. ±0.01	%/°C
Ripple / Noise (p-p) <sup>①②</sup>	Typ. 10	mV
Output controlling voltage	0 to +2.5	V
Output voltage	+100 x Output controlling voltage	V
Operating ambient temperature	-10 to +60	°C
Operating ambient humidity <sup>⑥</sup>	Below 85	%
Storage temperature	-20 to +70	°C
Storage humidity <sup>⑥</sup>	Below 85	%
Weight	Typ. 6	g
Protective functions	Output overcurrent protection / Installed input FUSE / Power input protection	—

- NOTE:**
- ① At maximum output voltage
  - ② At maximum output current
  - ③ Rise time (0 % to 99 %)
  - ④ +4.75 V to +5.25 V input change
  - ⑤ 0 % to 100 % load change
  - ⑥ No condensation

# POWER SUPPLY MODULE C14478-53

Figure 1: Output accuracy (Output linearity)

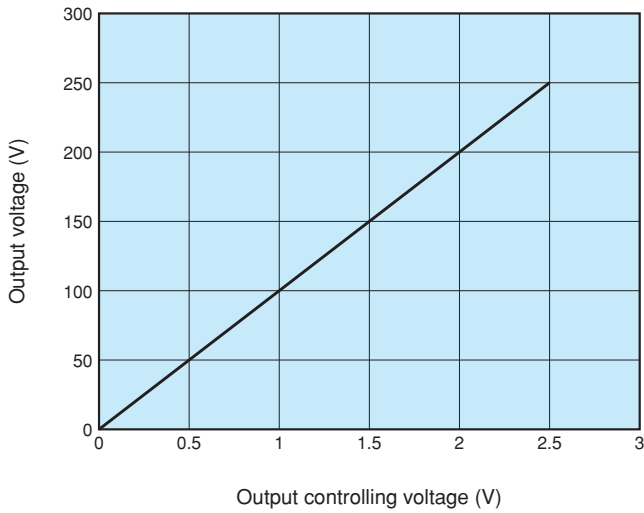


Figure 2: Ripple / Noise

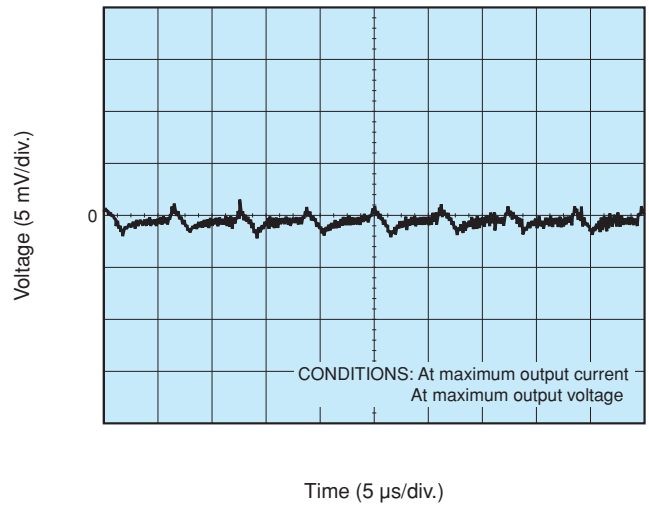
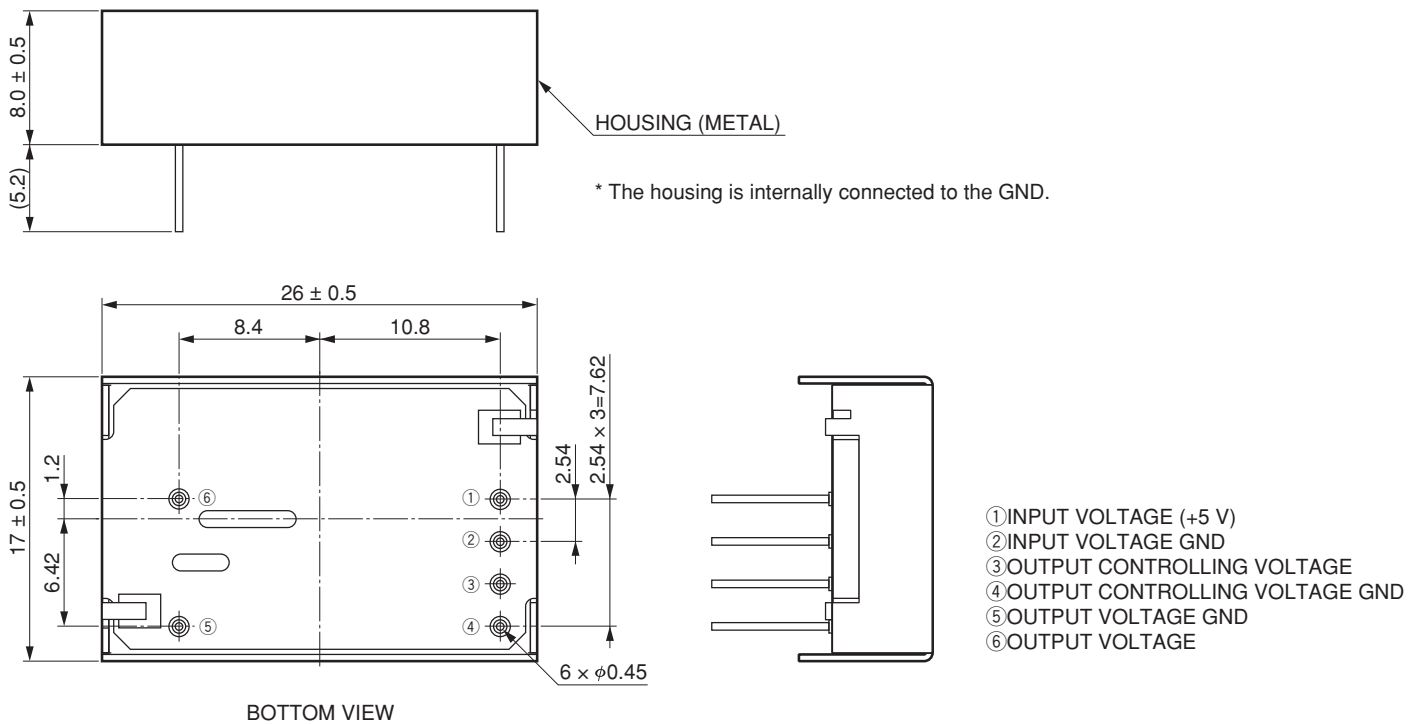


Figure 3: Dimensional outline (Unit: mm)



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