

HM-Z



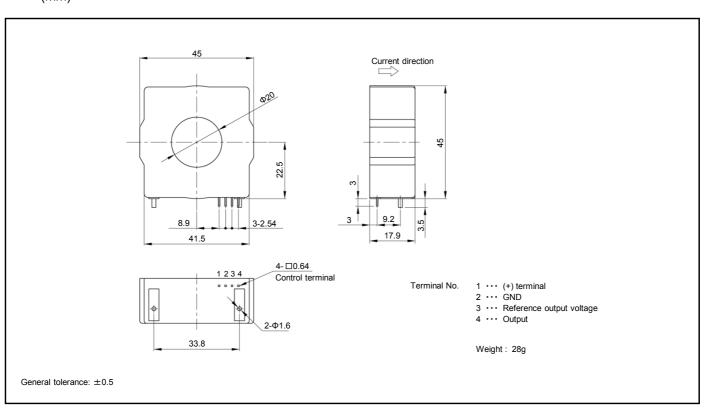
- Rated current 300mA, 600mA
- Optimum for direct current leakage detection application for power conditioning systems etc.
- Minute direct electric current detectable by electric wire penetration
- Small offset drift
- ±12 Volt version also available

Applications

Power conditioning systems, Inverters, Servo drivers

Dimensions

(mm)



Note: The marks " \(\text{" means 0V or 0A} \)

Specification Ta=25°C

	Voltage output type	
Туре	HM-Z003V12PP5	HM-Z006V1486PP5
Rated current [If]	±300mA	±600mA
Continuously flowing DC current	±500mA	±850mA
Saturation current [Is]	±520mA	±870mA
Linearity limits	0~±500mA	0~±850mA
Internal reference voltage [Vref] (I=0)	+2.5V±5mV	
External reference input voltage [Vref]	1.5~4V	
Rated output RL>500kΩ [Vh] (I=If, output-Vref)	V0±1.2V±1.6%	V0±1.4856V±1%
Residual output [V0] (I=0, output-Vref)	Within ±96mV	Within ±60mV
Output linearity	Within ±1%	
Response time	Within 50μs (at di/dt=lf/μs)	Within 30µs (at di/dt=lf/µs)
Response performance	Within 10%	
Hysteresis voltage range	Within 10mV	
Output Temp. Coef.	Within ±0.04%/°C	Within ±0.01%/℃
Residual output Temp. Coef.	Within ±1.425mV/°C	Within ±1.3mV/°C
Internal reference voltage Temp. Coef.	Within ±0.125mV/°C	
Control power supply	+5V±5%	
Consumption current	25mA+(Input current/1000)	
Degauss mode	Operates when control power is turned on or at the time of recovery from external Vref input 0.8V or less.	
Operating Temp.	-40°C~+105°C	
Storage Temp.	-40°C~+105°C	
Dielectric withstand voltage	3500V AC 50/60Hz 1minute	
Insulation resistance	Not less than 500MΩ 500V DC	

- Note1) The indicated residual output is the one after the core hysteresis is removed.
- Note2) Energization time of continuous live DC current x150% shall be within 1 minute.
- Note3) In this specification, accuracy was determined with reference to the reference voltage (Vref).
- Note4) For the reference voltage, there are 2 types of modes of internal reference output and external reference input.

Characteristics chart HM-Z003V12PP5 Time base: 5µs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 200mA/div. Output voltage 0.2V/div. Output voltage 0.5V/div Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C Output voltage (V) HM-Z006V1486PP5 Output voltage

Input current (mA)