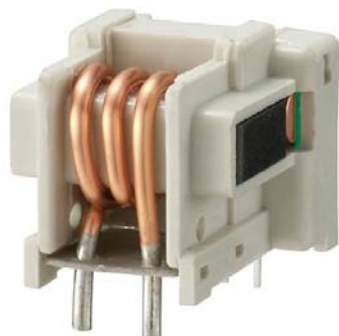


HC-PDN



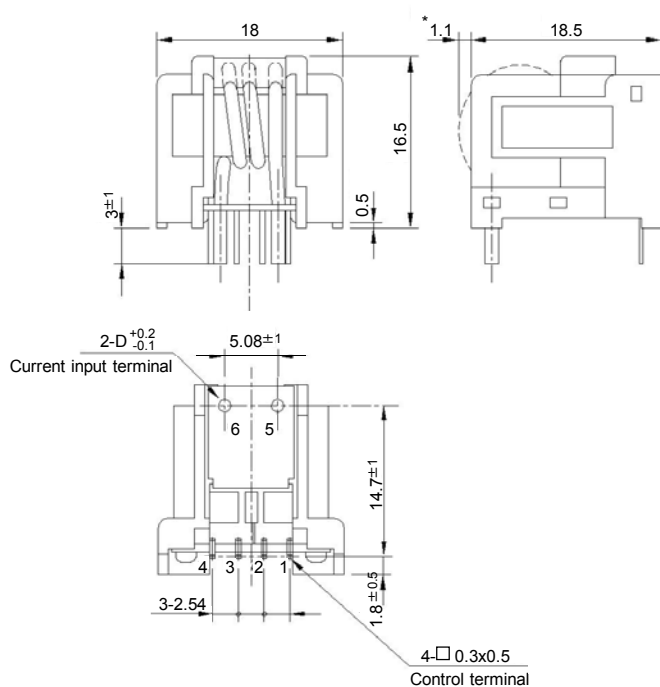
- Rated current 5A ~ 50A
- Well isolated for European Standards
- Superior noise-resistance
- Reduced height compact design
- ± 12 Volt version also available

Applications

Inverters, Servo drivers, NC machine tools

Dimensions

(mm)



General tolerance: ± 0.5

Dimensions of Current Input Terminals

Size of primary winding	Width D
$\Phi 0.8$	$\Phi 0.8$
$\Phi 1.3$	$\Phi 1.3$
$\Phi 1.6$	$\Phi 1.6$

Note) The dimensions marked with * are protruded areas of the primary winding

Terminal No. 1 - (-) terminal
2 - GND
3 - (+) terminal
4 - Output
5 - (+) input
6 - (-) input

Weight : 6g

Specification

Ta=25°C

Type	HC-PDN05V4B15	HC-PDN10V4B15	HC-PDN20V4B15	HC-PDN30V4B15	HC-PDN50V4B15
Rated current [If]	±5A	±10A	±20A	±30A	±50A
Continuously flowing DC current	±8.8A	±23.3A	±23.3A	±35.4A	±35.4A
Saturation current [Is]	±15A	±30A	±45A	±90A	±90A
Linearity limits	0~±12.5A	0~±25A	0~±37.5A	0~±75A	0~±75A
Size of primary winding	Φ0.8	Φ1.3	Φ1.3	Φ1.6	Φ1.6
Turns	6	3	2	1	1
Rated output [Vh]	±4V±2% (RL=10kΩ)				
Residual output [Vo]	Within ±100mV				
Output linearity	Within ±1%				
Response time	Within 10μs (at di/dt=If/μs)				
Response performance	Within 10%				
Hysteresis voltage range	Within 100mV				
Output Temp. Coef.	Within ±0.1%/°C				
Residual output Temp. Coef.	Within ±6mV/°C				
Control power supply	±15V±5%				
Consumption current	Within 30mA				
Operating Temp.	-10°C~+80°C				
Storage Temp.	-15°C~+85°C				
Dielectric withstand voltage	2500V AC 50/60Hz 1minute				
Insulation resistance	Not less than 500MΩ 500V DC				

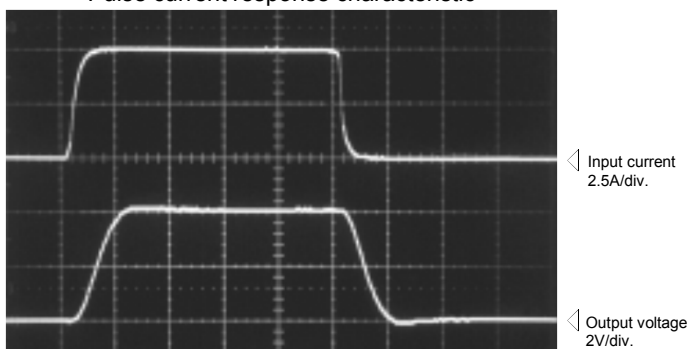
Note1) The indicated residual output is the one after the core hysteresis is removed.

Characteristics chart

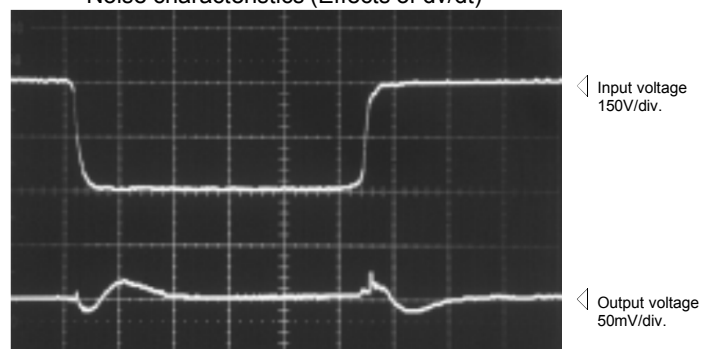
HC-PDN05V4B15

Time base: 5μs/div.

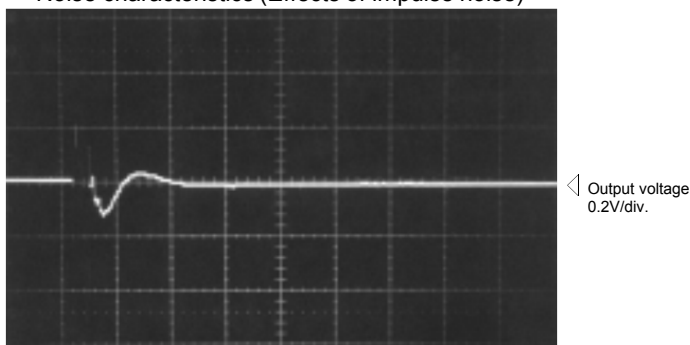
Pulse current response characteristic



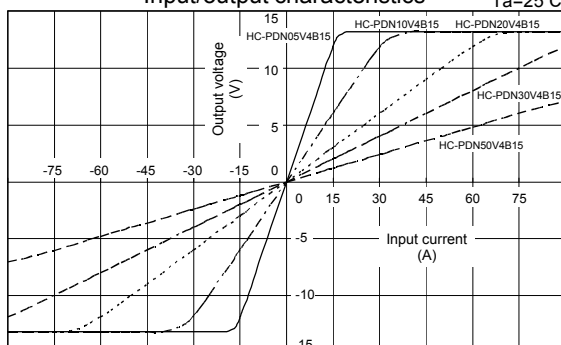
Noise characteristics (Effects of dv/dt)



Noise characteristics (Effects of impulse noise)



Input/output characteristics



Note: The marks "◁" means 0V or 0A.