



HC-ASB series

6505 W. Park Blvd. Suite 306 PMB 356. Plano, TX 75093 Tel: 972.931.8463 | Fax: 972.931.8668 | sales@dgseals.com

For Automotive

Small-sized, medium-capacity type Bolt on type

HC-ASB



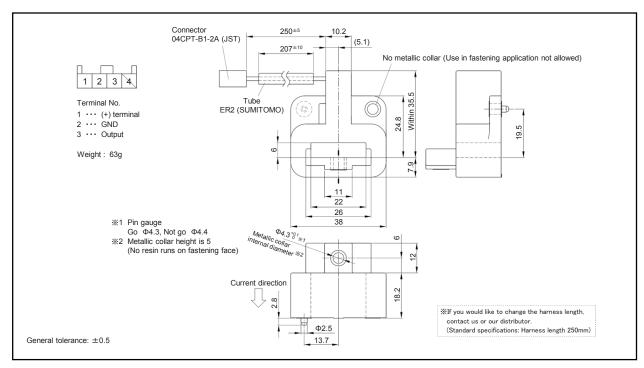
- Rated current 200A ~ 800A
- Small size handles large current (MAX 800A)
- Ensures broad operating temperature range $(-40^{\circ}C \sim +125^{\circ}C)$
- 5V single power supply ratio metric specifica-
- Attached to bus-bar, cable output specifications

Applications

HEV inverters, EV inverters, Current detection in on-board devices

Dimensions

(mm)



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Specification Ta=25°C

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Туре		HC-ASB200V2PP5-16	HC-ASB400V2PP5-16	HC-ASB600V2PP5-16	HC-ASB800V2PP5-16
Rated current	[If]	±200A	±400A	±600A	±800A
Saturation current	[ls]	±220A	±440A	±660A	±880A
Linearity limits		0~±200A	0~±400A	0~±600A	0~±800A
Rated output [Vh]	l=+lf	Within V0+2V×(Vcc/5) \pm 1.5% (RL=10k Ω)			
	I=-If	Within V0-2V × (Vcc/5) \pm 1.5% (RL=10k Ω)			
Residual output [V0]		Within Vcc/2±30mV			
Output linearity		Within ±1%			
Response time		Within 10µs (at di/dt=100A/µs)			
Response performance		Within 10%			
Hysteresis voltage range		Within 30mV	Within 22mV	Within 16mV	Within 13mV
Output Temp. Coef.		Within ±0.04%/°C			
Residual output Temp. Coef.		Within ±1mV/°C	Within ±0.6mV/°C	Within ±0.5mV/°C	Within ±0.4mV/°C
Control power supply [Vcc]		+5V±4%			
Power variation characteristics change [+5V±4%]	l=±lf	3.5~4.5%			
	I=0	3.2~4.8%	3.5~4.5%		
Consumption current		Within 30mA			
Operating Temp.		-40°C~+125°C			
Storage Temp.		-40°C~+125°C			
Dielectric withstand voltage		2500V AC 50/60Hz 1minute			
Insulation resistance		Not less than 500MΩ 500V DC			

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

Note2) Output specifications include $100-\Omega$ output resistance and 1-mA maximum output current.

Note3) Since residual output is ratiometric output, it varies according to the control power supply value.

Note4) Code at the end of the model name represents harness specifications.

HC-ASB800V2PP5-16 Characteristics chart Time base: 5µs/div. Pulse current response characteristic Noise characteristics (Effects of dv/dt) Input voltage 150V/div. Input current 50A/div. Output voltage 50mV/div. Output voltage 0.1V/div. Noise characteristics (Effects of impulse noise) Input/output characteristics Ta=25°C HC-ASA800V2PP5-16 HC-ASA600V2PP5-16 Output voltage 0.5V/div. 800 600 Input current (A)

Note: The marks " \quad " means 0V or 0A.