

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Hall Effect Current Sensors S20S200D15M1

Features:

- Closed Loop type
- Voltage or current output
- Panel mounting
- JST connector
- Insulated plastic case according to UL94V0

Advantage:

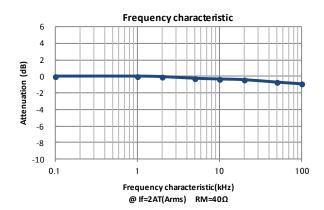
- **Excellent accuracy**
- Very good linearity
- Low temperature drift
- Wide frequency bandwidth
- No insertion loss
- High Immunity To External Interference
- Optimised response time
- · Current overload capability

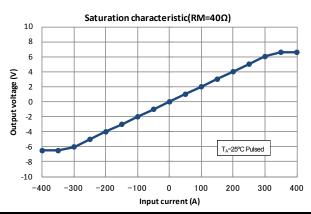
Specifications

Specifications Parameter	Symbol	T _A =25°C, V _{CC} =±15V		
	+ -	S20S200D15M1		
Primary nominal current	I _f	200A	300A	
Maximum current ¹ @70°C V _{CC} =±15V	I_{fmax}	$\pm 300A$ (at R _M = 30Ω)		
Measurement resistance @70°C	R _M	5Ω ~35 Ω (at V _{CC} = ±12V)	9Ω~13Ω (at $V_{CC} = \pm 12V$)	
		25Ω ~65 Ω (at V _{CC} = ±15V)	29Ω~33Ω (at V _{CC} = ±15V)	
Conversion ratio	K _N	1 : 2000		
Rated output current	lo	100mA	150mA	
Output current accuracy ² (at I _f)	Х	lo±1%		
Offset current ³ (at If=0A)	l _{Of}	≤ ±0.5mA		
Output linearity²(0A~If)	٤٦	≤ ±0.25% (at I _f)		
Power supply voltage ¹	Vcc	± 12V ± 15V ± 5%		
Consumption current	Icc	≤ ±16mA (Output current is not included)		
Response rime ⁴	t _r	≤ 1µs (at di/dt = 100A / µs)		
Thermal drift of gain ⁵	Tclo	≤ ±0.02%/°C (at T _A = -5°C~+70°C)		
Thermal drift of offset current	Tclof	≤ ±0.012mA/°C (at T _A = -5°C~+70°C)		
Hysteresis error	I _{OH}	\leq 0.3mA (at I _f =0A \rightarrow I _f \rightarrow 0A)		
Insulation voltage	V _d	AC2500V, for 1minute (sensing current 0.5mA), inside of through hole \Leftrightarrow terminal		
Insulation resistance	R _{IS}	≥ 500MΩ (at DC500V), inside of through hole ⇔ terminal		
Secondary coil resistance	Rs	33Ω (at T _A =70°C)		
Ambient operation temperature	T _A	-20°C ~ +70°C		
Ambient storage temperature	Ts	-20°C ~ +85°C		

¹ Maximum current is restricted by V_{CC}—² Without offset current—³ After removal of core hysteresis—⁴ Time between 90% input current full scale and 90% of sensor output full scale — ⁵ Without Thermal drift of offset current

Electrical Performances





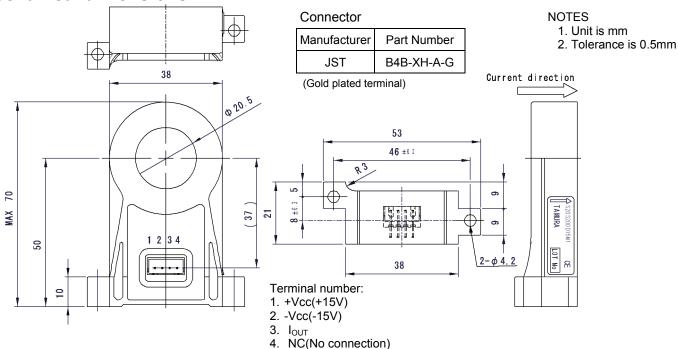




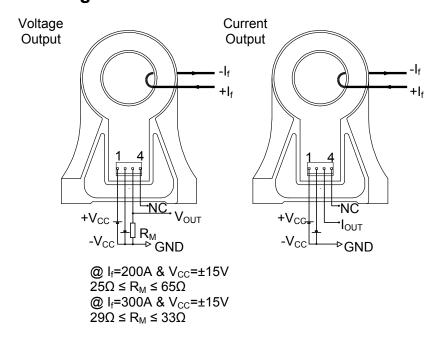


Hall Effect Current Sensors S20S200D15M1

Mechanical dimensions



Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
46g	50	200	2400



