

Hall Effect Current Sensor L05Z800S15



Features:

- Open Loop type
- · Panel mounting
- Unipolar power supply
- Industrial temperature range
- JST connector
- Insulated plastic case according to UL94V0

Advantage:

- Excellent accuracy and linearity
- · Low temperature drift
- · Wide frequency bandwidth
- No insertion loss
- High Immunity to external Interference
- Current overload capability
- Regulated offset voltage

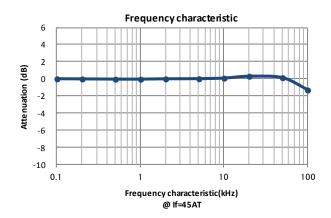
Specifications

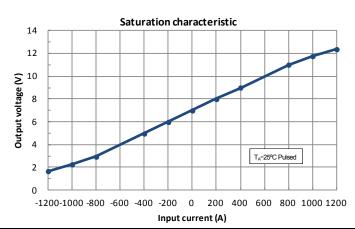
 $T_A{=}25^{o}C,\ V_{CC}{=}{+}15V,\ R_L{=}10k\Omega$

		1A-23 O, VCC-113V, N10K2	
Parameters	Symbol	L05Z800S15	
Primary nominal current	I _f	800AT	
Saturation current	I _{fmax}	≥ ± 900AT	
Rated output voltage	Vo	11V±0.110V(at If)	
Offset voltage ¹	V_{of}	+ 7.0V ± 0.050V(at If=0A)	
Output linearity ² (0A~If)	ε _L	≤ ± 1% (at If)	
Power supply voltage	V _{cc}	+ 15V ±5 %	
Consumption current	lcc	≤ 20mA	
Response time ³	t _r	≤ 10µs (at di/dt = 100A / µs)	
Thermal drift of gain ⁴	TcVo	≤ ± 0.1%/°C	
Thermal drift of offset	TcVof	≤ ± 1.0mV/°C	
Hysteresis allowance	V _{OH}	≤ 20mV (at If=0A→If→0A)	
Insulation voltage	V_{d}	AC2500V, for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal	
Insulation resistance	R _{IS}	≥ 500MΩ (at DC500V), inside of through hole ⇔ terminal	
Ambient operation temperature	T _A	-40°C~+85°C	
Ambient storage temperature	Ts	-40°C~+85°C	

 $^{^{1}}$ V_{of} is fixed (independent of V_{CC}). After removal of core hysteresis— 2 Without offset — 3 Time between 90% input current full scale and 90% of sensor output full scale— 4 Without Thermal drift of offset

Electrical Performances





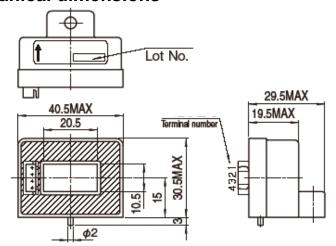






Hall Effect Current Sensor L05Z800S15

Mechanical dimensions



NOTES

- 1. Unit is mm
- 2. Tolerance is 0.5mm

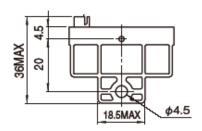
Connector

Manufacturer	Part Number	
JST	B4B-XH-A-G	

(Gold plated terminal)

Terminal number:

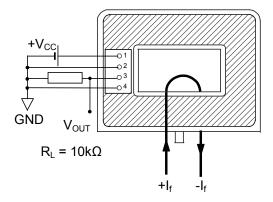
- 1.+V_{CC}(+15V) 2.GND
- $3.\,V_{\text{OUT}}$
- 4.GND





Recommended PCB holes

Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
50g	20	200	3600



