



Hall Effect Current Sensor L05Z800S15

Features:

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

 UL94V0
 UL94V0

Advantage:

- Excellent accuracy and linearity
- Low temperature drift
- Wide frequency bandwidth
- No insertion loss
- High Immunity to external Interference

 T_A =25°C, V_{CC} =+15V, R_L =10k Ω

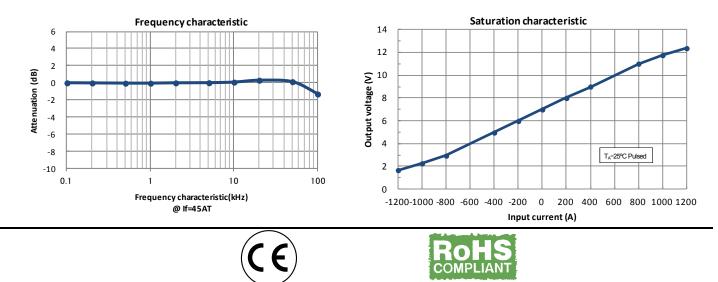
- Current overload capability
 - Regulated offset voltage

Specifications

Parameters	Symbol	L05Z800S15		
Primary nominal current	l _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 \sim If)	٤∟	≤ ± 1% (at If)		
Power supply voltage	V _{cc}	+ 15V ±5 %		
Consumption current	lcc	≤ 20mA		
Response time ³	tr	≤ 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	Vd	AC2500V, for 1minute (sensing current 0.5mA), inside of through hole \Leftrightarrow terminal		
Insulation resistance	R _{IS}	≥ 500MΩ (at DC500V), inside of through hole \Leftrightarrow 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

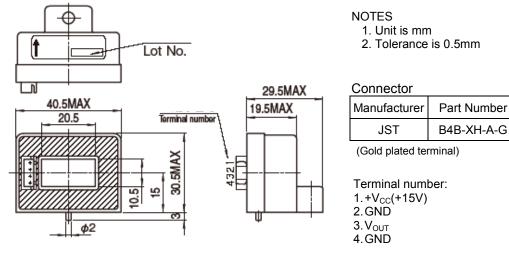


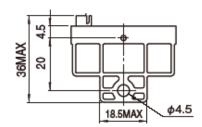
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Mechanical dimensions

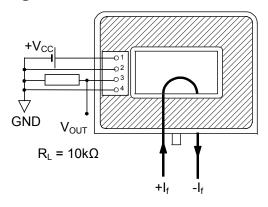




φ4.5 φ2.5 R

Recommended PCB holes

Electrical connection diagram



Package & Weight Information

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



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Authorized Distributor

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Tamura: <u>L05Z800S15</u>