

Hall Effect Current Sensors L03S***D15WM Series

Features:

Open Loop type • E

- Panel mounting
- Molex connector
- · Improved mounting
- 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

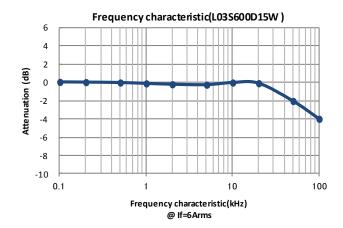
Specifications

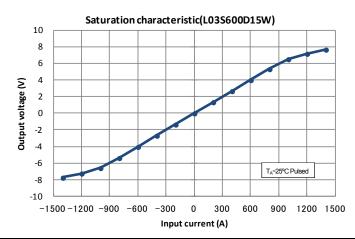
 T_A =25°C, V_{CC} =±15V, R_L =10k Ω

Parameters	Symbol	L03S050 D15WM	L03S100 D15WM	L03S200 D15WM	L03S300 D15WM	L03S400 D15WM	L03S500 D15WM	L03S600 D15WM	L03S700 D15WM	L03S800 D15WM
Primary nominal current	If	50AT	100AT	200AT	300AT	400AT	500AT	600AT	700AT	800AT
Saturation current	I _{fmax}	≥±150AT	≥±300AT	≥ ±600AT	≥ ±900AT	≥ ±1000A				
Rated output voltage	Vo		4V±0.040V (at If)							
Offset voltage ¹ (at If=0A)	V _{of}	≤ ±40mV	≤ ±40mV ≤ ±30mV							
Output linearity ² (0A~If)	٤L	≤±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 gain⁴	TcVo	≤ ±0.1%/°C								
Thermal drift of offset	TcVof	≤±2mV/°C ≤±1.0 mV/°C								
Hysteresis error	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	-10°C~+80°C								
Ambient storage tem- perature	Ts	-25°C~+85°C								

¹ After removal of core hysteresis— ² Without offset — ³ Time between 10% input current full scale and 90% of sensor output full scale — ⁴ Without Thermal drift of offset

Electrical Performances





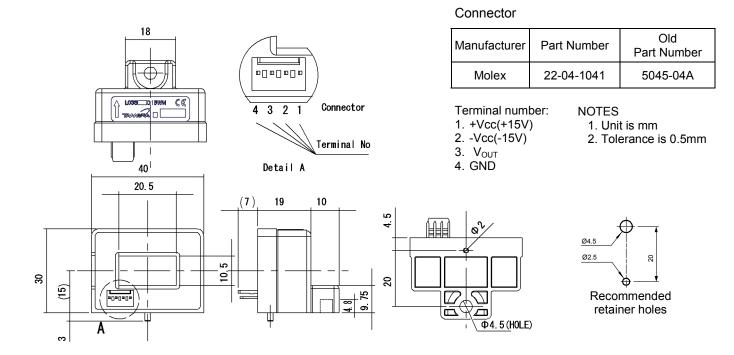




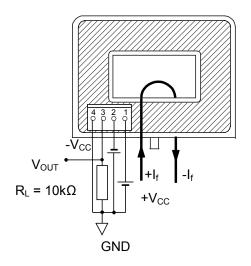


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Mechanical dimensions



Electrical connection diagram



Package & Weight Information

Weight	Pcs/box	Pcs/carton	Pcs/pallet
51g	20	200	3600



