

# Hall Effect Current Sensors L03S\*\*\*D15WM Series

## Features:

- Open Loop type
- 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



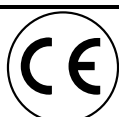
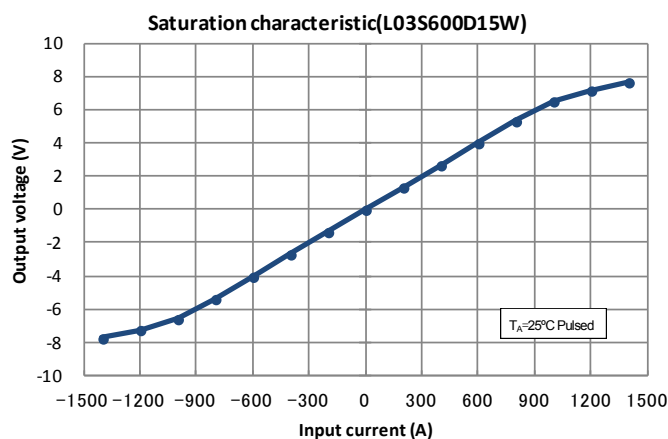
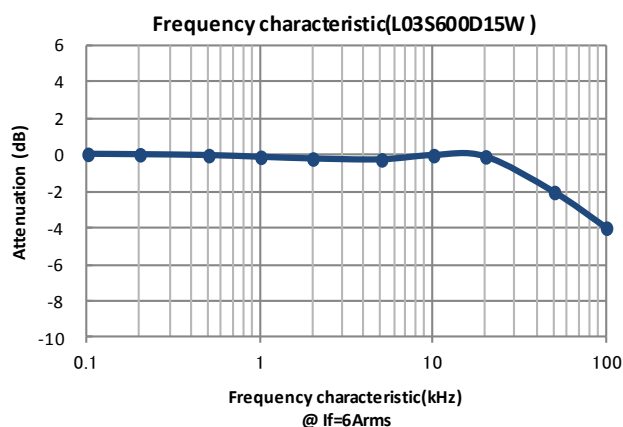
## Specifications

 $T_A=25^{\circ}\text{C}$ ,  $V_{CC}=\pm 15\text{V}$ ,  $R_L=10\text{k}\Omega$ 

Parameters	Symbol	L03S050 D15WM	L03S100 D15WM	L03S200 D15WM	L03S300 D15WM	L03S400 D15WM	L03S500 D15WM	L03S600 D15WM	L03S700 D15WM	L03S800 D15WM
Primary nominal current	I <sub>f</sub>	50AT	100AT	200AT	300AT	400AT	500AT	600AT	700AT	800AT
Saturation current	I <sub>fmax</sub>	≥±150AT	≥±300AT	≥ ±600AT	≥ ±900AT	≥ ±1000A				
Rated output voltage	V <sub>o</sub>	4V±0.040V (at If)								
Offset voltage <sup>1</sup> (at If=0A)	V <sub>of</sub>	≤ ±40mV	≤ ±30mV							
Output linearity <sup>2</sup> (0A~If)	ε <sub>L</sub>	≤±1% (at If)								
Power supply voltage	V <sub>CC</sub>	±15V±5%								
Consumption current	I <sub>cc</sub>	≤20mA								
Response time <sup>3</sup>	t <sub>r</sub>	≤10μs (at di/dt=100A/μs)								
Thermal drift of gain <sup>4</sup>	TcVo	≤ ±0.1%/°C								
Thermal drift of offset	TcVof	≤±2mV/°C	≤±1.0 mV/°C							
Hysteresis error	V <sub>OH</sub>	≤ ±20mV (at If=0A→If→0A)								
Insulation voltage	V <sub>d</sub>	AC2500V for 1minute (sensing current 0.5mA), inside of through hole ⇔ terminal								
Insulation resistance	R <sub>IS</sub>	≥ 500MΩ (at DC500V) , inside of through hole ⇔ terminal								
Ambient operation temperature	T <sub>A</sub>	-10°C~+80°C								
Ambient storage temperature	T <sub>S</sub>	-25°C~+85°C								

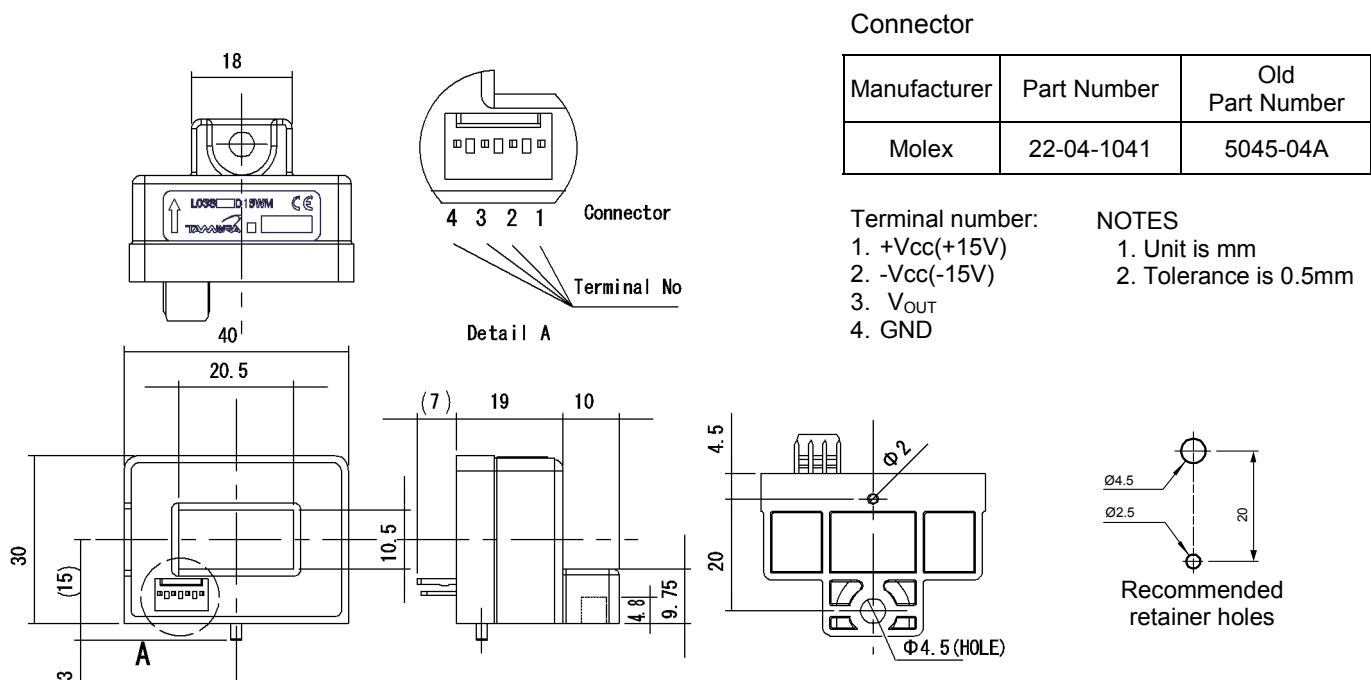
<sup>1</sup> After removal of core hysteresis — <sup>2</sup> Without offset — <sup>3</sup> Time between 10% input current full scale and 90% of sensor output full scale — <sup>4</sup> Without Thermal drift of offset

## Electrical Performances

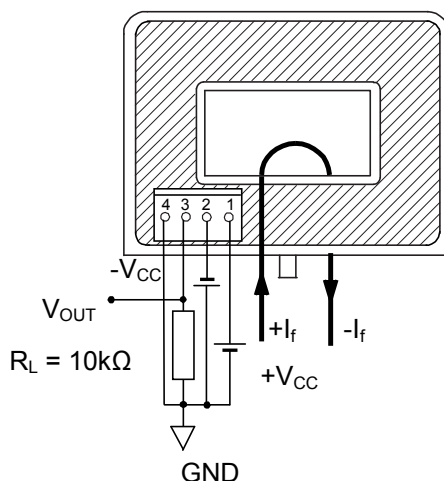


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## Mechanical dimensions

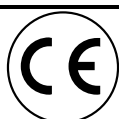


## Electrical connection diagram



## Package & Weight Information

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



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