

# 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	$I_f$	50AT	100AT	200AT	300AT	400AT	500AT	600AT	700AT	800AT
Saturation current	$I_{fmax}$	$\geq \pm 150\text{AT}$	$\geq \pm 300\text{AT}$	$\geq \pm 600\text{AT}$	$\geq \pm 900\text{AT}$	$\geq \pm 1000\text{A}$				
Rated output voltage	$V_o$	$4\text{V} \pm 0.040\text{V}$ (at $I_f$ )								
Offset voltage <sup>1</sup> (at $I_f=0\text{A}$ )	$V_{of}$	$\leq \pm 40\text{mV}$	$\leq \pm 30\text{mV}$							
Output linearity <sup>2</sup> ( $0\text{A} \sim I_f$ )	$\epsilon_L$	$\leq \pm 1\%$ (at $I_f$ )								
Power supply voltage	$V_{CC}$	$\pm 15\text{V} \pm 5\%$								
Consumption current	$I_{CC}$	$\leq 20\text{mA}$								
Response time <sup>3</sup>	$t_r$	$\leq 10\mu\text{s}$ (at $di/dt=100\text{A}/\mu\text{s}$ )								
Thermal drift of gain <sup>4</sup>	$TcVo$	$\leq \pm 0.1\%/^{\circ}\text{C}$								
Thermal drift of offset	$TcVof$	$\leq \pm 2\text{mV}/^{\circ}\text{C}$	$\leq \pm 1.0\text{mV}/^{\circ}\text{C}$							
Hysteresis error	$V_{OH}$	$\leq \pm 20\text{mV}$ (at $I_f=0\text{A} \rightarrow I_f \rightarrow 0\text{A}$ )								
Insulation voltage	$V_d$	AC2500V for 1minute (sensing current 0.5mA), inside of through hole $\leftrightarrow$ terminal								
Insulation resistance	$R_{IS}$	$\geq 500\text{M}\Omega$ (at DC500V), inside of through hole $\leftrightarrow$ terminal								
Ambient operation temperature	$T_A$	$-10^{\circ}\text{C} \sim +80^{\circ}\text{C}$								
Ambient storage temperature	$T_S$	$-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$								

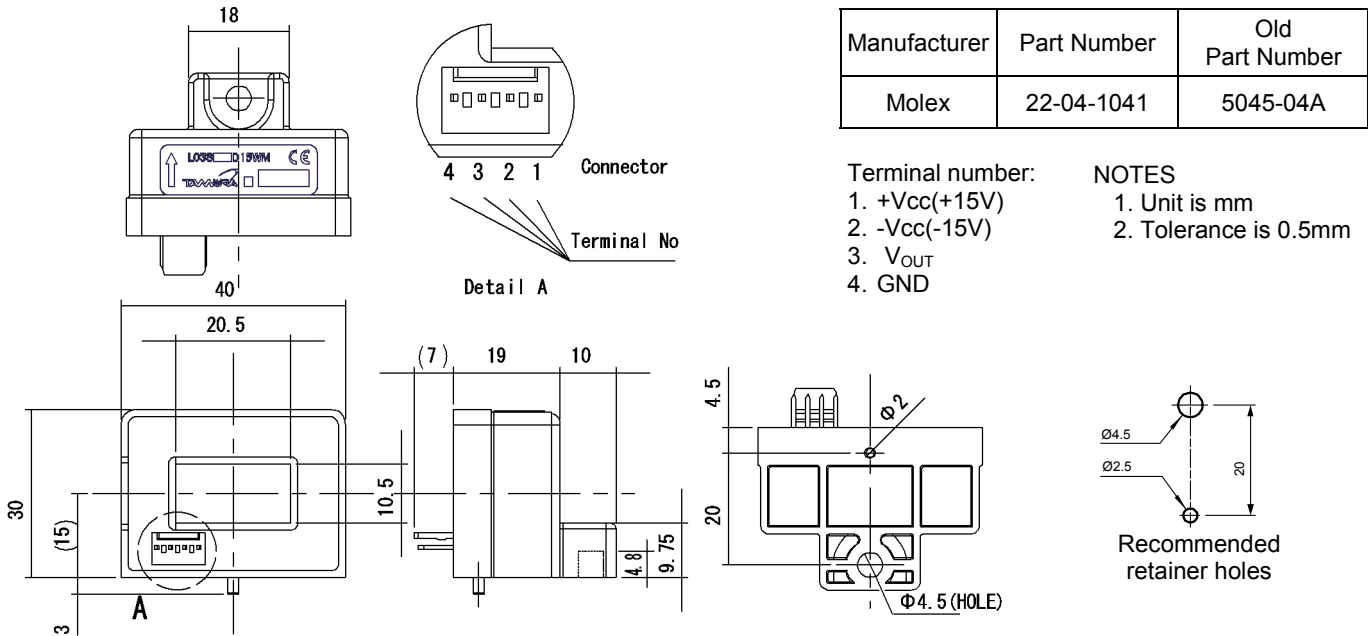
<sup>1</sup> After removal of core hysteresis — <sup>2</sup> Without offset — <sup>3</sup> Time between 10% input current full scale and 90% of sensor output full scale — <sup>4</sup> Without Thermal drift of offset

## Electrical Performances

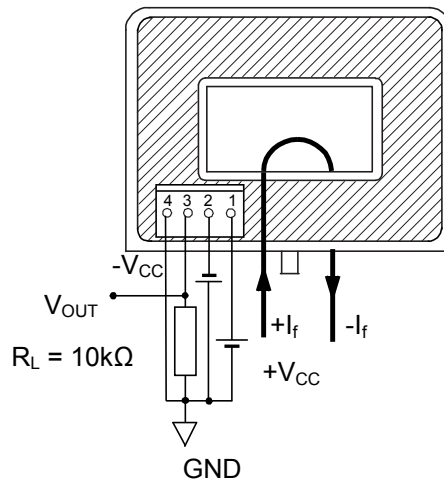


# Hall Effect Current Sensors L03S\*\*\*D15WM Series

## Mechanical dimensions



## Electrical connection diagram



## Package & Weight Information

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



# Mouser Electronics

Authorized Distributor

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