Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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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

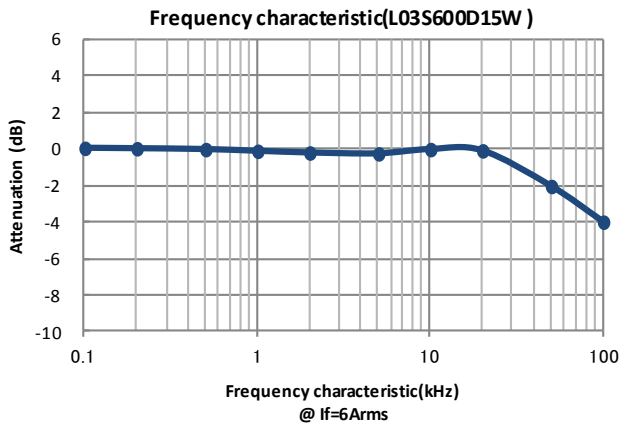
Specifications

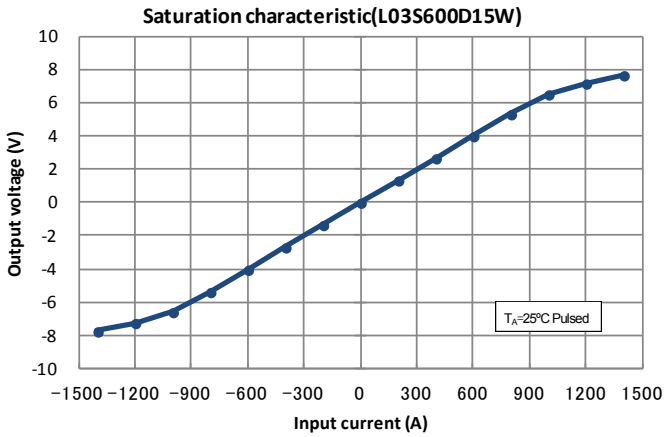
T_A=25ºC, V_{CC}=±15V, R_L=10kΩ

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}	≥±150AT	≥±300AT	≥ ±600AT	≥ ±900AT	≥ ±1000A				
Rated output voltage	V_o	4V±0.040V (at If)								
Offset voltage[1] (at If=0A)	V_{of}	≤ ±40mV	≤ ±30mV							
Output linearity[2] (0A～If)	ε_L	≤±1% (at If)								
Power supply voltage	V_{CC}	±15V±5%								
Consumption current	Icc	≤20mA								
Response time[3]	t_r	≤10μs (at di/dt=100A/μs)								
Thermal drift of gain[4]	TcVo	≤ ±0.1%/ºC								
Thermal drift of offset	TcVof	≤±2mV/ºC	≤±1.0 mV/ºC							
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	-10ºC~+80ºC								
Ambient storage temperature	T_S	-25ºC~+85ºC								

[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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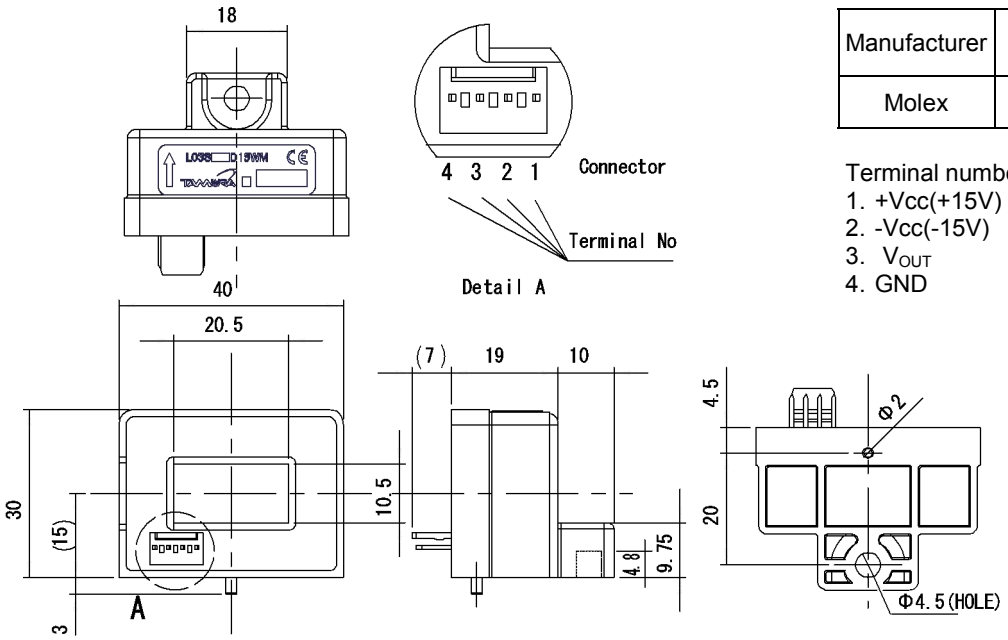
Hall Effect Current Sensors L03S***D15WM Series

Mechanical dimensions

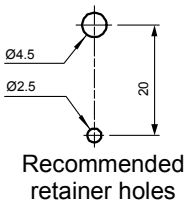


Connector

Manufacturer	Part Number	Old Part Number
Molex	22-04-1041	5045-04A

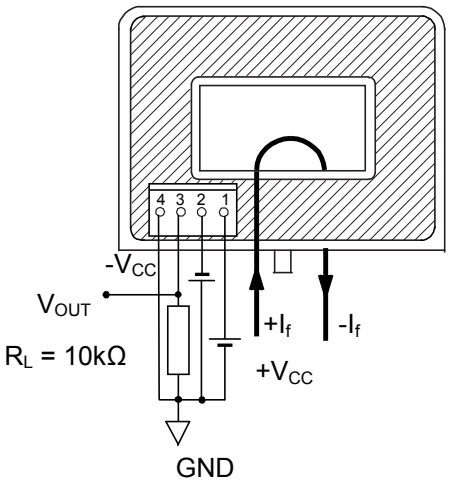
Terminal number:
1. +Vcc(+15V)
2. -Vcc(-15V)
3. V_{OUT}
4. GND

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



Recommended retainer holes

Electrical connection diagram



Package & Weight Information

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

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