TAMURA
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Hall Effect Current Sensors

3 to 30 Amp Applications — Open Loop

- Compact PCB Mount Design
- Voltage Output type
- Withstanding Voltage of 2500 Vrms
- Very High Linearity
- ±15V Supply Voltage
- CE EN50178 (pending)

Specifications Measured at 25˚C, RL-10KΩ, Vcc=±15V

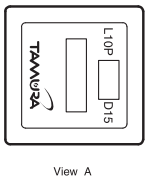
Specification		L10P003D15	L10P005D15	L10P010D15	L10P015D15	L10P020D15	L10P025D15	L10P030D15
Nominal Primary DC Current	(If)	3A	5A	10A	15A	20A	25A	30A
Maximum Current	$If_{(max)}$	9A	15A	30A	45A	60A	75A	90A
Output Voltage @ If	V_{OUT}	4V						
Offset Voltage	V_{OE}	<± 40mV						
Accuracy @ If[2]	X	<± 1% of If						
Output Linearity[2] (0..If Max)	E_L	<± 1% of If						
Power Supply	Vcc	± 15V ±5%						
Response Time	T_r	<5μs						
Current Consumption	Ic	12mA typ						
Output Temperature Characteristic	TCE_G	<± 0.1% / ˚C						
Offset Temperature Characteristic	V_{OT}	± 1.2mV / ˚C typ						
Hysteresis Allowance @ If=0	V_{OH}	≤ ± 25mV						
Withstand Voltage (50/60Hz)	V_d	2,000VACrms for 1 minute (Sensing Current 0.5mA)						
Insulation Resistance @ 500VDC	R_{IS}	≥ 500MΩ						
Operating Bandwidth[1] (-3dB)	f	DC - 50kHz						
Operating Temperature	T_A	-10 - +80˚C						
Storage Temperature	T_S	-20 - +85˚C						

[1] *Small signal only; derating needed to avoid excessive core heating at high frequency*

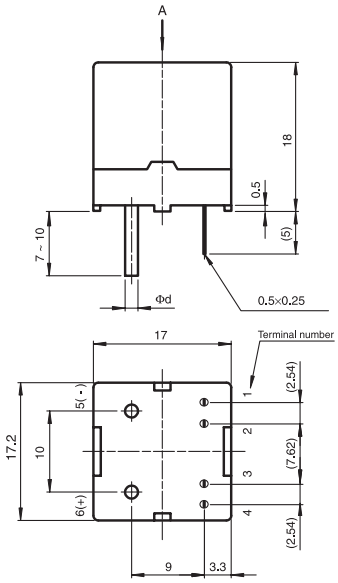
[2] *Without offset*

Package & Weight Information

QTY/Box	Weight/each(g)
100	10



View A



Types	Rated current	ϕ d
L10P003D15	3A	ϕ 0.5
L10P005D15	5A	ϕ 0.6
L10P010D15	10A	ϕ 0.8
L10P015D15	15A	ϕ 1.2
L10P020D15	20A	ϕ 1.6
L10P025D15	25A	ϕ 1.6
L10P030D15	30A	ϕ 1.6

Terminal number	
1	OUT
2	+15V
3	- 15V
4	GND
5	- IN
6	+IN

TAMURA CORPORATION

43352 Business Park Drive. | P.O. Box 892230 Temecula, CA 92589-2230 | www.tamuracorp.com

USA
Tel: 800-872-6624
Fax: 909-676-9482

Japan
Tel: 81 (0)3 3978-2111
Fax: 81 (0)3 3923-0230

United Kingdom
Tel: 44 (0) 1380 731 700
Fax: 44 (0) 1380 731 702

Hong Kong
Tel: 852-2389-4321
Fax: 852-2341-9689