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Hall Effect Current Sensors

3 to 25 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 2000 Vrms
- 3A - 25A with a Bipolar ±15VDC Supply Voltage
- Low Cost

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

Specification		L07P003D15	L07P005D15	L07P010D15	L07P015D15	L07P020D15	L07P025D15
Nominal Primary DC Current	(If)	±3A	±5A	±10A	±15A	±20A	±25A
Maximum Current	$If_{(max)}$	±9A	±15A	±30A	±45A	±60A	±75A
Output Voltage @ If	V_{OUT}	+4V±0.05V, -4V±0.150V (at If)					
Offset Voltage	V_{OE}	0± 0.50V					
Accuracy @ If[1]	X	± 1% of If					
Output Linearity[1] (O..If Max)	E_L	≤ ± 1% (at 0A ~ If)					
Power Supply	Vcc	± 15V ±5%					
Response Time	T_r	≤ 10µsec (di/dt = 10A / 5µsec)					
Current Consumption	Ic	≤ 30mA					
Output Temperature Characteristic	TCE_G	<± 0.1% / °C					
Offset Temperature Characteristic	V_{OT}	≤ ± 2mV / °C TYP					
Hysteresis Allowance @ If=O	V_{OH}	≤ 30mV (0A = If)					
Withstand Voltage (50/60Hz)	V_d	2,000VACrms for 1 minute (Sensing Current 0.5mA)					
Insulation Resistance @ 500VDC	R_{IS}	≥ 500MW					
Operating Temperature	T_A	-10 ~ +80°C					
Storage Temperature	T_S	-20 ~ +85°C					

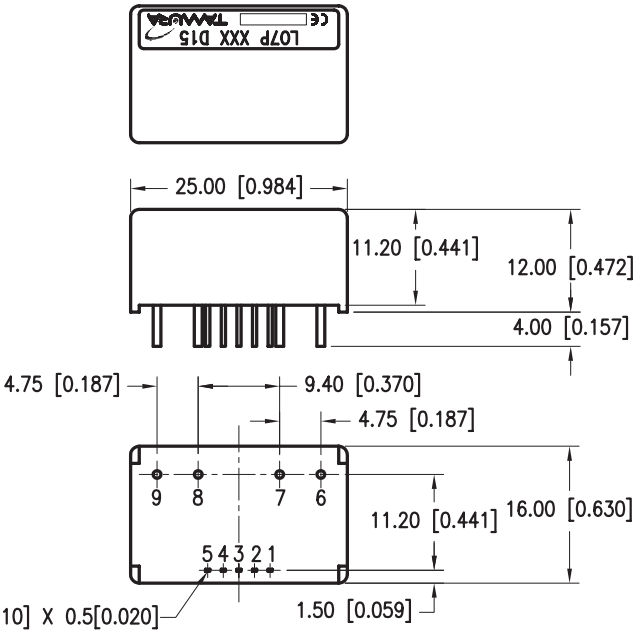
1.Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	+15V
2	−15V
3	OUT1
4	OUT2
5	GND
6	+IN1
7	−IN1
8	+IN2
9	−IN2

CURRENT	ø PIN
3A	ø 0.6[0.024]
5A	ø 0.8[0.031]
10A ~ 15A	ø 1.4[0.055]
20A ~ 25A	ø 1.6[0.063]



Unless otherwise specified, tolerances shall be ±0.5mm.

Current Sense Products

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Hall Effect Current Sensors

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5 to 40 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 2000 Vrms
- 5A - 40A Unipolar +5VDC Supply Voltage
- Low Cost

Specifications Measured at 25°C, RL-10KΩ Vcc=+5V

Specification		L07P005S05	L07P007S05	L07P010S05	L07P015S05	L07P020S05	L07P025S05	L07P030S05	L07P040S05
Nominal Primary DC Current	(If)	±5A	±7A	±10A	±15A	±20A	±25A	±30A	±40V
Maximum Current	$If_{(max)}$	±6.25A	±9.375A	±12.5A	±18.75A	±25A	±31.25A	±37.5A	±50A
Output Voltage @ If	V_{OUT}	2.5V ±1.5V							
Offset Voltage	V_{OE}	V_{OUT} ± 45mV							
Accuracy @ If[1]	X	± 1%							
Output Linearity[1] (O..If Max)	E_L	≤ ± 1% (at 0A ~ If)							
Power Supply	Vcc	+ 15V ±5%							
Response Time	T_r	≤ 5µsec (di/dt = 10A / 5µsec)							
Current Consumption	Ic	≤ 30mA							
Output Temperature Characteristic	TCE_G	< ± 2mV / °C							
Offset Temperature Characteristic	V_{OT}	≤ ± 2mV / °C MAX							
Hysteresis Allowance @ If=O	V_{OH}	≤ 15mV (0A = If)							
Withstand Voltage (50/60Hz)	V_d	2,000VACrms for 1 minute (Sensing Current 0.5mA)							
Insulation Resistance @ 500VDC	R_{IS}	≥ 500MΩ							
Operating Temperature	T_A	-25 ~ +80°C							
Storage Temperature	T_S	-25 ~ +85°C							

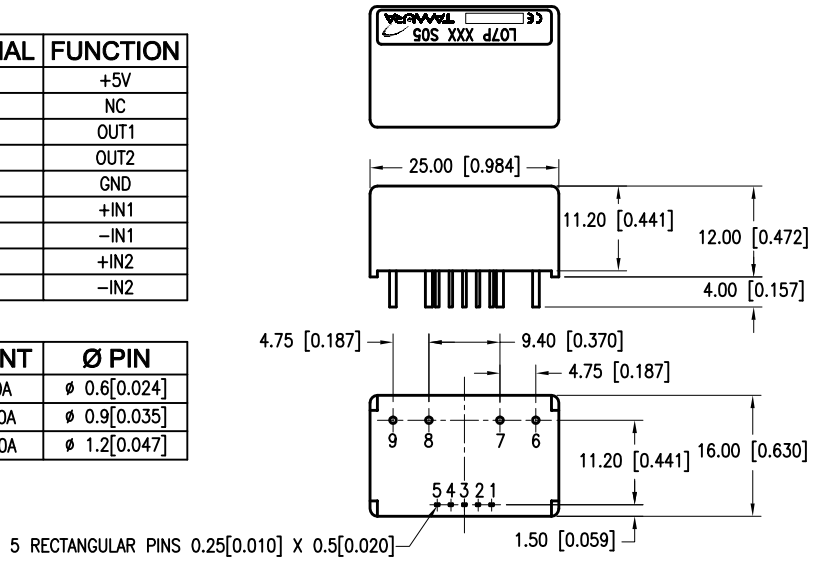
1. Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	+5V
2	NC
3	OUT1
4	OUT2
5	GND
6	+IN1
7	−IN1
8	+IN2
9	−IN2

CURRENT	Ø PIN
5A ~ 10A	ø 0.6[0.024]
15A ~ 20A	ø 0.9[0.035]
25A ~ 40A	ø 1.2[0.047]



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Hall Effect Current Sensors

3 to 30 Amp Applications — Open Loop

- Compact PCB Mount Design
- Integrated Primary
- Withstanding Voltage of 3000 Vrms
- 3A - 30A with a Bipolar ±15VDC Supply Voltage
- Low Cost

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

Specification		L18P003D15	L18P005D15	L18P010D15	L18P015D15	L18P020D15	L18P025D15	L18P030D15
Nominal Primary DC Current	(If)	±3A	±5A	±10A	±15A	±20A	±25A	±30A
Maximum Current	$If_{(max)}$	±9A	±15A	±30A	±45A	±60A	±60A	±90A
Output Voltage @ If	V_{OUT}	±4V±0.04V (at If)						
Offset Voltage	V_{OE}	0± 0.040V						
Accuracy @ If[1]	X	± 1% of If						
Output Linearity[1] (O..If Max)	E_L	≤ ± 1% MAX						
Power Supply	Vcc	± 15V ±5%						
Response Time	T_r	≤ 5µsec (di/dt = 10A / 5µsec)						
Current Consumption	Ic	≤ 15mA						
Output Temperature Characteristic	TCE_G	< ± 0.1% / °C MAX						
Offset Temperature Characteristic	V_{OT}	≤ ± 1.5mV / °C TYP						
Hysteresis Allowance @ If=O	V_{OH}	≤ 25mV (0A = If)						
Withstand Voltage (50/60Hz)	V_d	3,000VACrms for 1 minute (Sensing Current 0.5mA)						
Insulation Resistance @ 500VDC	R_{IS}	≥ 500MΩ						
Operating Temperature	T_A	-10 ~ +80°C						
Storage Temperature	T_S	-20 ~ +85°C						

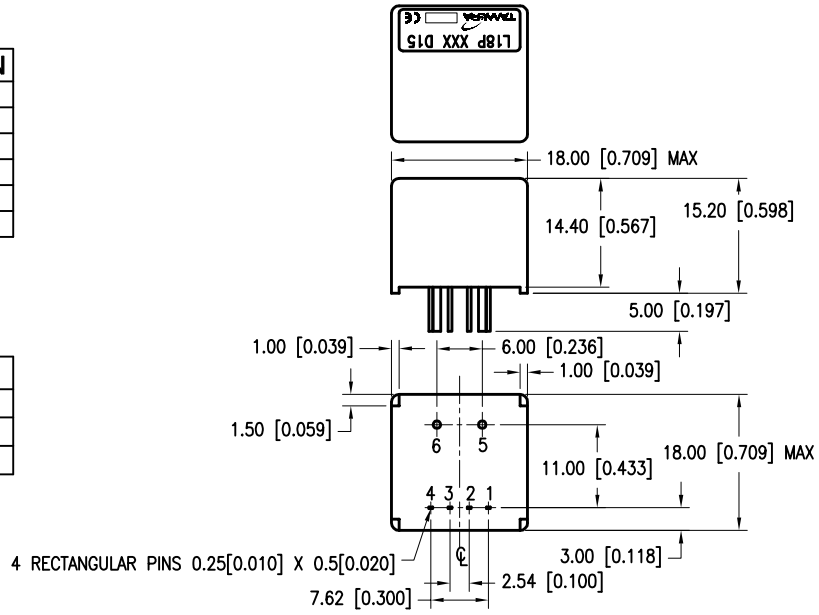
[1] *Without offset*

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	$-V_{CC}$
2	GND
3	$+V_{CC}$
4	OUTPUT
5	+IN
6	−IN

CURRENT	Ø PIN
3A ~ 5A	ø 0.6[0.024]
10A ~ 15A	ø 0.9[0.035]
20A ~ 30A	ø 1.2[0.047]



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Hall Effect Current Sensors

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40 to 60 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 3000 Vrms
- 40A - 60A Bipolar ±15VDC Supply Voltage
- Durable Busbar Construction

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

Specification		L18P040D15	L18P050D15	L18P060D15
Nominal Primary DC Current	(If)	±40A	±50A	±60A
Maximum Current	$If_{(max)}$	±120A	±150A	±180A
Output Voltage @ If	V_{OUT}	±4.0V ±0.050V		
Offset Voltage	V_{OE}	0± 0.040V		
Accuracy @ If[1]	X	± 1%		
Output Linearity[1] (O..If Max)	E_L	≤ 1% MAX		
Power Supply	Vcc	± 15V ±5%		
Response Time	T_r	≤ 5µsec		
Current Consumption	Ic	≤ 15mA		
Output Temperature Characteristic	TCE_G	< ± 0.1% / °C MAX		
Offset Temperature Characteristic	V_{OT}	≤ ± 1.5mV / °C MAX		
Hysteresis Allowance @ If=O	V_{OH}	≤ 40mV (0A = If)		
Withstand Voltage (50/60Hz)	V_d	3000VACrms for 1 minute (Sensing Current 0.5mA)		
Insulation Resistance @ 500VDC	R_{IS}	≥ 500MΩ		
Operating Temperature	T_A	-10 ~ +80°C		
Storage Temperature	T_S	-20 ~ +85°C		

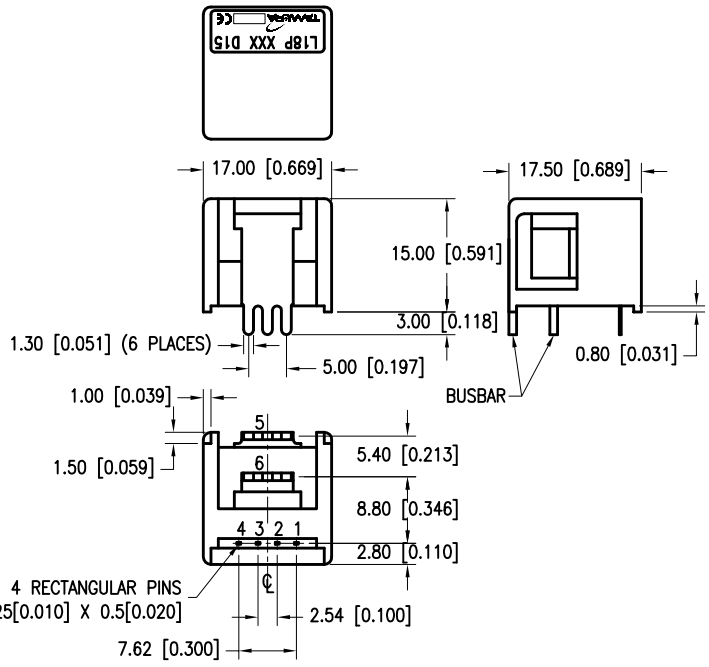
1. Without offset

Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	$-V_{CC}$
2	GND
3	$+V_{CC}$
4	OUTPUT
5	+IN
6	−IN

CURRENT	Ø PIN
40A ~ 60A	BUSBAR 1.0[0.04]X6.3[2.48]



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Hall Effect Current Sensors

50 to 200 Amp Applications — Open Loop

- Compact PCB Mount Design
- Voltage Output type
- CE EN50178 (pending)

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

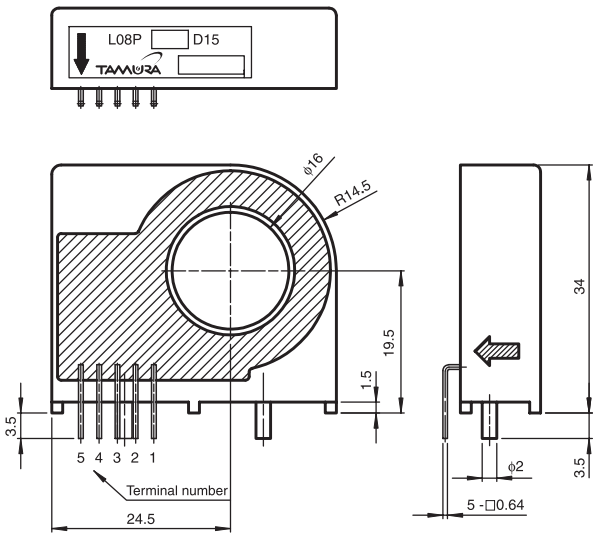
Specification		L08P050D15	L08P100D15	L08P150D15	L08P200D15
Nominal Primary DC Current	(If)	50AT	100AT	150AT	200AT
Maximum Current	$If_{(max)}$	±150AT	±300AT	±350AT	±350AT
Output Voltage @ If	V_{OUT}	4V			
Offset Voltage	V_{OE}	<±40mV			
Accuracy @ If[2]	X	±1% of If			
Output Linearity[2] (0..If MAX)	E_L	≤±1% of If			
Power Supply	Vcc	±15V±5%			
Response Time	t_r	<10μ Sec			
Current Consumption	Ic	12mA typ			
Output Temperature Characteristic	TCE_G	<±0.1% / °C	<±0.05% / °C		
Offset Temperature Characteristic	V_{OT}	<±2mV / °C	<±1mV / °C		
Hysteresis Allowance @ If=0	V_{OH}	< ±30mV	<± 20mV		
Withstand Voltage (50/60Hz)	V_d	2,500VACrms 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			

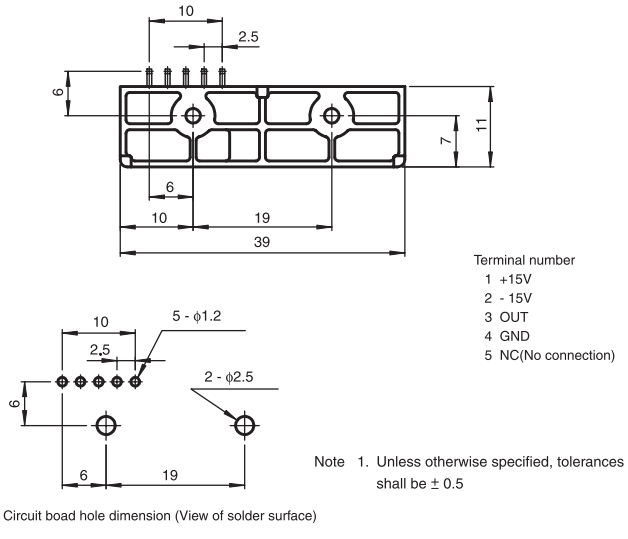
[1] *Small signal only; derating needed to avoid excessive core heating at high frequency*

[2] *Without offset*

Package & Weight Information

QTY/Box	Weight/each(g)
50	25





Terminal number
1 +15V
2 - 15V
3 OUT
4 GND
5 NC(No connection)

Circuit boad hole dimension (View of solder surface)

Note 1. Unless otherwise specified, tolerances shall be ± 0.5

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Hall Effect Current Sensors

50 to 600 Amp Applications — Open Loop

- Compact PCB Mount Design
- Voltage Output type
- Very High Linearity
- 15V Supply Voltage
- CE EN50178 (pending)

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

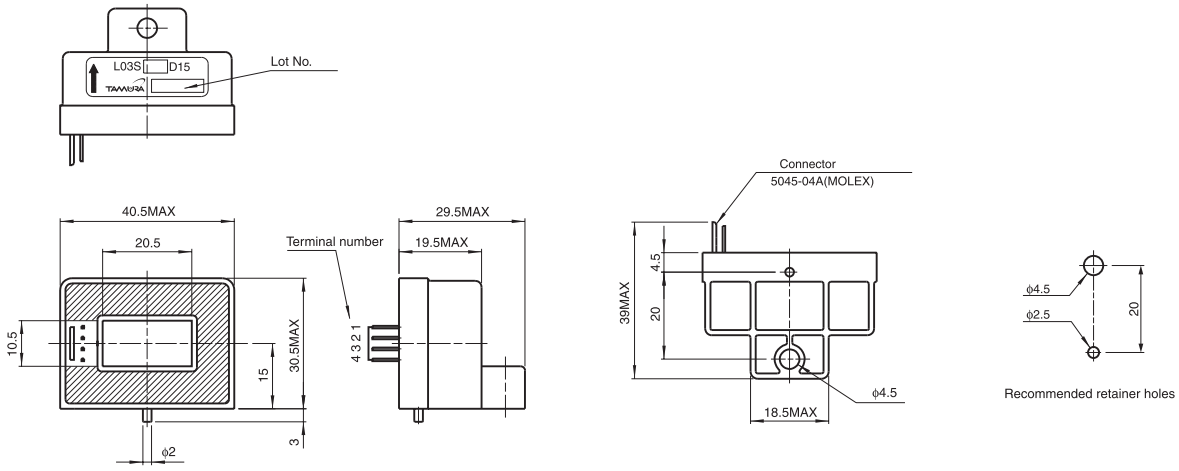
Specification		L03S050D15	L03S100D15	L03S200D15	L03S300D15	L03S400D15	L03S500D15	L03S600D15
Nominal Primary DC Current	(If)	50AT	100AT	200AT	300AT	400AT	500AT	600AT
Maximum Current	$If_{(max)}$	±150AT	±300AT	±600AT	±700AT	±700AT	±700AT	±700AT
Output Voltage @ If	V_{OUT}	4V						
Offset Voltage	V_{OE}	<± 40mV	<±30mV					
Accuracy @ If[2]	X	±1% of If						
Output Linearity[2] (0..If MAX)	E_L	±1% of If						
Power Supply	V_{CC}	±15V±5%						
Response Time	t_r	≤5μ Sec						
Current Consumption	Ic	12mA typ						
Output Temperature Characteristic	TCE_G	<±0.1% / °C						
Offset Temperature Characteristic	V_{OT}	<±2mV / °C	<±1mV / °C					
Hysteresis Allowance @ If=0	V_{OH}	±30mV			±20mV		±10mV	
Withstand Voltage (50/60Hz)	V_d	2,500VACrms 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	-15 - +90°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)
20	50



Terminal number
1 ; +15V
2 ; - 15V
3 ; OUT
4 ; 0V

Note 1. Unless otherwise specified, tolerances shall be ±0.5

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Hall Effect Current Sensors

50 to 600 Amp Applications — Open Loop

- Compact PCB Mount Design
- Voltage Output type
- Very High Linearity
- 5V Supply Voltage
- CE EN50178 (pending)

Specifications Measured at 25˚C, RL-10KΩ, Vcc=+ 5V; Vref = $\frac{VCC}{2}$

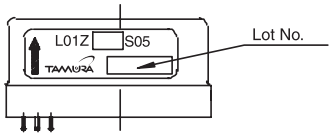
Specification		L01Z050S05	L01Z100S05	L01Z150S05	L01Z200S05	L01Z300S05	L01Z400S05	L01Z500S05	L01Z600S05
Nominal Primary DC Current	(If)	50AT	100AT	150AT	200AT	300AT	400AT	500AT	600AT
Maximum Current	$If_{(max)}$	±62.5AT	±125AT	±187.5AT	±250AT	±375AT	±500AT	±625AT	±750AT
Output Voltage @ If	V_{OUT}	Vref±1.5V	Vref±1.5V						
Offset Voltage	V_{OE}	2.5V±0.035V	2.5V±0.030V						
Accuracy @ If[2]	X	<±1% of If	≤±1% of If						
Output Linearity[2] (0..If MAX)	E_L	±1% of If							
Power Supply	Vcc	5V ±2.0%							
Response Time	t_r	<5µs							
Current Consumption	Ic	<15mA							
Output Temperature Characteristic	TCE_G	<±2mV / °C	<±1.5mV / °C						
Offset Temperature Characteristic	V_{OT}	<±2mV / °C	<±1mV / °C						
Hysteresis Allowance @ If=0	V_{OH}	±8mV			±4mV		±6mV		
Withstand Voltage (50/60Hz)	V_d	2,500VACrms 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	-15 - +85°C							

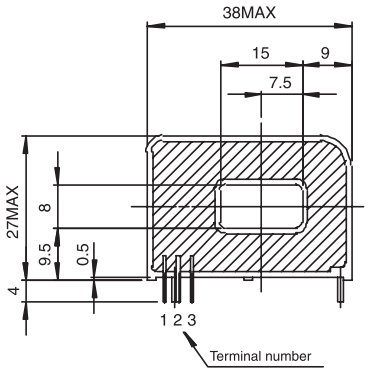
[1] *Small signal only; derating needed to avoid excessive core heating at high frequency*

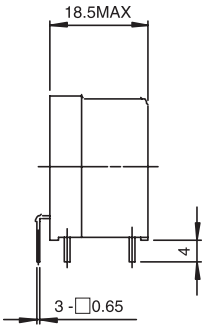
[2] *Without offset*

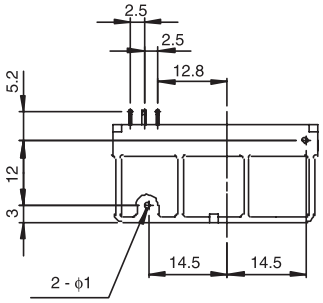
Package & Weight Information

QTY/Box	Weight/each(g)
50	45









Terminal number
1 OUT
2 OV
3 5V

Note 1. Unless otherwise specified, tolerances shall be ± 0.5

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Hall Effect Current Sensors

100 to 300 Amp Applications — Closed Loop

- PCB Mount Design
- Current Output type
- Very High Linearity
- ±15V Supply Voltage
- CE EN50178 (pending)

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

Specification		S21Z100D15	S21Z150D15	S21Z200D15	S21Z300D15
Nominal Primary DC Current	(If)	100A	150A	200A	300A
Maximum Current	$If_{(max)}$	150A	225A	300A	450A
Output Current @ If	I_{OUT}	50mA	75mA	100mA	150mA
Conversion Ratio	K_n	1:2000	1:2000	1:2000	1:2000
Accuracy	X	±1% of If			
Offset Current (If=0)[1]	Io	±0.5mA			
Output Linearity[1] (0..If)	E_L	±0.25% of If			
Power Supply	Vcc	±15V ±5%[2]			
Response Time	t_r	≤ 1µs			
Current Consumption	Ic	±16mA[3]			
Output Temperature Characteristic	TCI_{OUT}	±0.025% / °C @ If=0 (Ta=-5 to +70°C)			
Offset Temperature Characteristic	I_{OT}	±0.025mA / °C @ If=0 (Ta=-5 to +70°C)			
Hysteresis Allowance If=0 - Ifmax)	I_{OH}	≤ 0.3mA			
Withstand Voltage (50/60Hz)	V_d	2,500VACrms for 1 minute (sensing current 0.5mA)			
Insulation Resistance @ 500VDC	R_{IS}	500MΩ			
Frequency Bandwidth (-3dB)	f	DC - 150kHz			
Operating Temperature	T_A	-10 - +70°C			
Storage Temperature	T_S	-20 - +85°C			
Secondary Coil Resistance	Rs	TBD Ohms @ Ta = 70°C (Contact Tamura for additional info)			

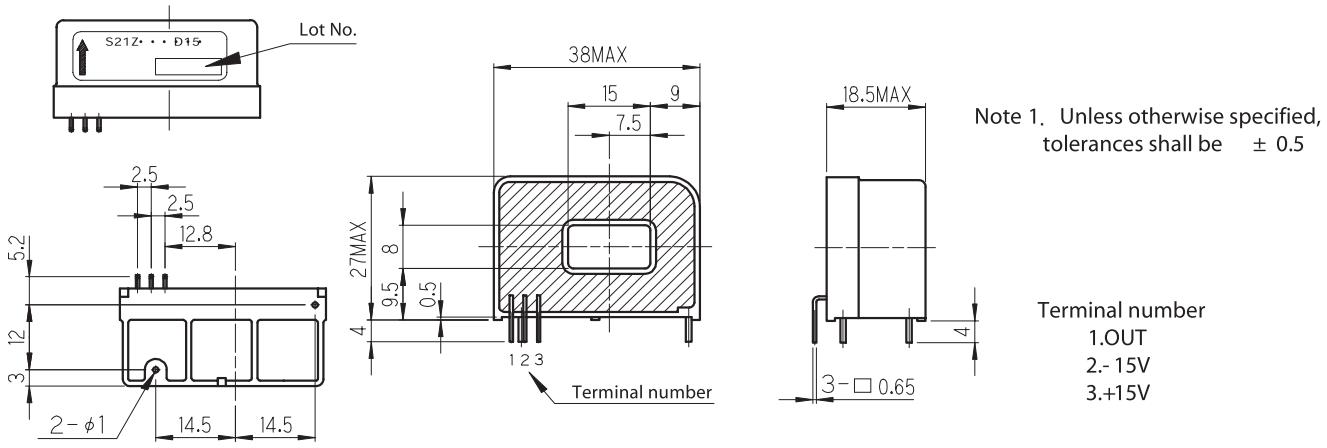
[1] *Without Offset*

[2] *Ifmax is Restricted by Vcc*

[3] *Output Current not included*

Package & Weight Information

QTY/Box	Weight/each(g)
50	25



Note 1. Unless otherwise specified, tolerances shall be ± 0.5

Terminal number
1.OUT
2.- 15V
3.+15V

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Hall Effect Current Sensors

50 to 300 Amp Applications — Closed Loop

- Panel Mount Design
- Current Output type
- Very High Linearity
- ±12V or ±15V Supply Voltage
- CE EN50178 (pending)

Specifications Measured at 25°C, RL±15KΩ, Vcc=±12V

Specification		S20S050A	S20S100A	S20S150A	S20S200A	S20S300A
Nominal Primary DC Current	(If)	50A	100A	150A	200A	300A
Maximum Current	$If_{(max)}$	75A	150A	225A	300A	450A
Output Current @ If	I_{OUT}	50mA	100mA	150mA	100mA	150mA
Conversion Ratio	K_N	1:1000	1:1000	1:1000	1:2000	1:2000
Offset Current (If=0)	Io	±0.5mA				
Accuracy [4]	X	< ±1% of If				
Output Linearity [4] (0..MAX)	E_L	±0.25%				
Power Supply	Vcc	12V or ±15V ±5% [2]				
Response Time @ di/dt=50A/uSec	t_r	1µs				
Current Consumption	Ic	±16mA [3]				
Output Temperature Characteristic	TCI_{OUT}	±0.02% / °C @ If (Ta=-5 to +70°C)				
Offset Temperature Characteristic	I_{OT}	±0.025mA / °C @ If=0 (Ta=-5 to +70°C)				
Hysteresis Allowance	I_{OH}	0.5mA				
Withstand Voltage (50/60Hz)	V_d	2,500VACrms for 1 minute (sensing current 0.5mA)				
Insulation Resistance @ 500VDC	R_{IS}	500MΩ				
Frequency Bandwidth (-3dB)	f	DC - 150kHz				
Operating Temperature	T_A	-10 - +70°C				
Storage Temperature	T_S	-20 - +85°C				
Secondary Coil Resistance	R_S	[1] Ohms @ 70°C (Contact Tamura Tech Support)				

[1] *TBD*

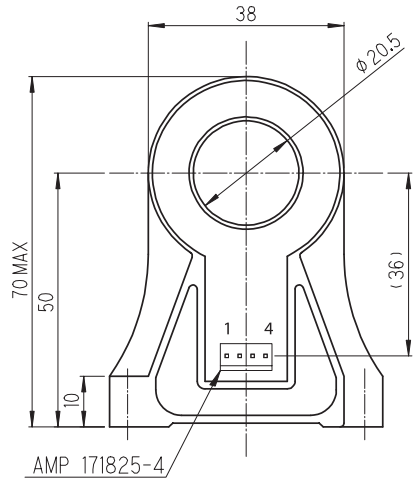
[2] *Ifmax is Restricted by Vcc*

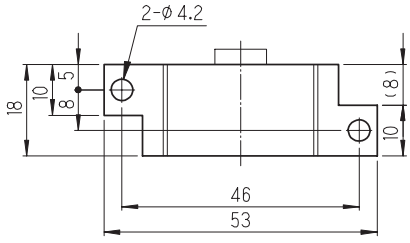
[3] *Output Current not included*

[4] *Without offset*

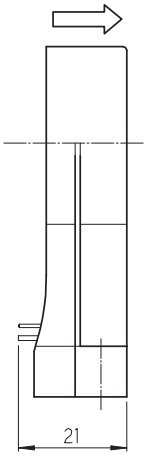
Package & Weight Information

QTY/Box	Weight/each(g)
TBD	46





Note Unless otherwise specified, tolerances shall be ± 0.5



Terminal Pin
1+15V
2.- 15V
3.OUT
4.NC

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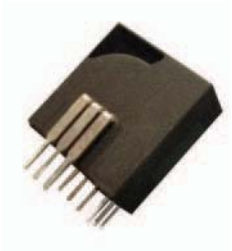
Hall Effect Current Sensors

6 to 25 Amp Applications — Closed Loop

- Multirange Current Sensor
- Voltage Output
- Compact PCB Mount
- Single Supply (±5V)
- CE EN50178 (pending)



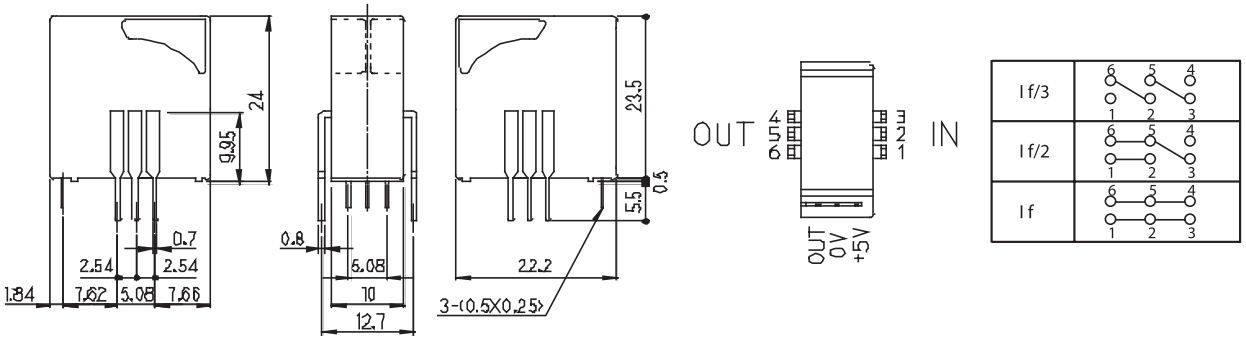
Specifications Measured at 25˚C, RL-10KΩ, Vcc=±5V

Specification		S22P006S05	S22P015S05	S22P025S05
Nominal Primary r.m.s. Current	(If)	±6A	±15A	±25A
Maximum Current	$If_{(max)}$	±18A	±45A	±75A
Offset Voltage (If=0)	V_{REF}	2.5V±30mV	2.5V±20mV	2.5V±15mV
Output Voltage	V_{OUT}	VREF ± 0.625V		
Output Voltage Accuracy[1] @ If	X	0.625V ±10mV		
Output Linearity (0 to If)	E_L	±0.25%		
Power Supply	Vcc	±5V±5%		
Response Time	t_r	1µs		
Current Consumption	I_C	12.5mA Typ		
Output Temperature Characteristic	ICEG	±0.05mV/°C		
Offset Temperature Characteristic	TC_{VOUT}	1.25mV/°C	1.25mV/°C	1.25mV/°C
Hysteresis Allowance (If=0 to Ifmax)	V_{OH}	≤ 0.25mV		
Withstand Voltage (50/60Hz)	V_d	3,000VACrms for 1 minute (sensing current 0.5mA)		
Insulation Resistance @ 500VDC	R_{IS}	≥500MΩ		
Operating Bandwidth (1dB)	f	DC - 200kHz		
Operating Temperature	T_A	-10 - +85°C		
Storage Temperature	T_S	-25 - +100°C		

[1] *Without offset*

Package & Weight Information

QTY/Box	Weight/each(g)
100	8



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LifeElectronics
Живое партнерство

ООО «ЛайфЭлектроникс» **“LifeElectronics” LLC**

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

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- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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