

## 3 to 25 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 2000 Vrms
- 3A - 25A with a Bipolar  $\pm 15\text{VDC}$  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 <sub>OUT</sub> +4V±0.05V, -4V±0.150V (at If)					
Offset Voltage	V <sub>OE</sub> 0± 0.50V					
Accuracy @ If <sup>1</sup>	X ± 1% of If					
Output Linearity <sup>1</sup> (O..If Max)	E <sub>L</sub> ≤ ± 1% (at 0A ~ If)					
Power Supply	V <sub>CC</sub> ± 15V ±5%					
Response Time	T <sub>r</sub> ≤ 10μsec (di/dt = 10A / 5μsec)					
Current Consumption	I <sub>c</sub> ≤ 30mA					
Output Temperature Characteristic	TCE <sub>G</sub> <± 0.1% / °C					
Offset Temperature Characteristic	V <sub>OT</sub> ≤ ± 2mV / °C TYP					
Hysteresis Allowance @ If=0	V <sub>OH</sub> ≤ 30mV (0A = If)					
Withstand Voltage (50/60Hz)	V <sub>d</sub> 2,000VACrms for 1 minute (Sensing Current 0.5mA)					
Insulation Resistance @ 500VDC	R <sub>IS</sub> ≥ 500MW					
Operating Temperature	T <sub>A</sub> -10 ~ +80°C					
Storage Temperature	T <sub>S</sub> -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	∅ PIN
3A	∅ 0.6[0.024]
5A	∅ 0.8[0.031]
10A ~ 15A	∅ 1.4[0.055]
20A ~ 25A	∅ 1.6[0.063]



Unless otherwise specified, tolerances shall be ±0.5mm.

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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 <sub>OUT</sub>	2.5V ±1.5V						
Offset Voltage	V <sub>OE</sub>	V <sub>OUT</sub> ± 45mV						
Accuracy @ If <sup>1</sup>	X	± 1%						
Output Linearity <sup>1</sup> (O.If Max)	E <sub>L</sub>	≤ ± 1% (at 0A ~ If)						
Power Supply	V <sub>CC</sub>	+ 15V ±5%						
Response Time	T <sub>r</sub>	≤ 5μsec (di/dt = 10A / 5μsec)						
Current Consumption	I <sub>c</sub>	≤ 30mA						
Output Temperature Characteristic	TCE <sub>G</sub>	< ± 2mV / °C						
Offset Temperature Characteristic	V <sub>OT</sub>	≤ ± 2mV / °C MAX						
Hysteresis Allowance @ If=0	V <sub>OH</sub>	≤ 15mV (0A = If)						
Withstand Voltage (50/60Hz)	V <sub>d</sub>	2,000VACrms for 1 minute (Sensing Current 0.5mA)						
Insulation Resistance @ 500VDC	R <sub>IS</sub>	≥ 500MΩ						
Operating Temperature	T <sub>A</sub>	-25 ~ +80°C						
Storage Temperature	T <sub>S</sub>	-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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## 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 <sub>OUT</sub> ±4V±0.04V (at If)						
Offset Voltage V <sub>OE</sub>	0± 0.040V						
Accuracy @ If <sup>1</sup>	X ± 1% of If						
Output Linearity <sup>1</sup> (O..If Max)	E <sub>L</sub> ≤ ± 1% MAX						
Power Supply V <sub>cc</sub>	± 15V ±5%						
Response Time T <sub>r</sub>	≤ 5μsec (di/dt = 10A / 5μsec)						
Current Consumption I <sub>c</sub>	≤ 15mA						
Output Temperature Characteristic TCE <sub>G</sub>	< ± 0.1% / °C MAX						
Offset Temperature Characteristic V <sub>OT</sub>	≤ ± 1.5mV / °C TYP						
Hysteresis Allowance @ If=0 V <sub>OH</sub>	≤ 25mV (0A = If)						
Withstand Voltage (50/60Hz) V <sub>d</sub>	3,000VACrms for 1 minute (Sensing Current 0.5mA)						
Insulation Resistance @ 500VDC R <sub>IS</sub>	≥ 500MΩ						
Operating Temperature T <sub>A</sub>	-10 ~ +80°C						
Storage Temperature T <sub>S</sub>	-20 ~ +85°C						

<sup>1</sup> Without offset

## Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	-V <sub>CC</sub>
2	GND
3	+V <sub>CC</sub>
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]



4 RECTANGULAR PINS 0.25[0.010] X 0.5[0.020]

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# Hall Effect Current Sensors

## 40 to 60 Amp Applications — Open Loop

- Compact PCB Mount Design
- Dual Integrated Primary
- Withstanding Voltage of 3000 Vrms
- 40A - 60A Bipolar  $\pm 15\text{VDC}$  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 <sub>OUT</sub>	±4.0V ±0.050V	
Offset Voltage	V <sub>OE</sub>	0± 0.040V	
Accuracy @ If <sup>1</sup>	X	± 1%	
Output Linearity <sup>1</sup> (O..If Max)	E <sub>L</sub>	≤ 1% MAX	
Power Supply	V <sub>CC</sub>	± 15V ±5%	
Response Time	T <sub>r</sub>	≤ 5μsec	
Current Consumption	I <sub>c</sub>	≤ 15mA	
Output Temperature Characteristic	TCE <sub>G</sub>	< ± 0.1% / °C MAX	
Offset Temperature Characteristic	V <sub>OT</sub>	≤ ± 1.5mV / °C MAX	
Hysteresis Allowance @ If=0	V <sub>OH</sub>	≤ 40mV (0A = If)	
Withstand Voltage (50/60Hz)	V <sub>d</sub>	3000VACrms for 1 minute (Sensing Current 0.5mA)	
Insulation Resistance @ 500VDC	R <sub>IS</sub>	≥ 500MΩ	
Operating Temperature	T <sub>A</sub>	-10 ~ +80°C	
Storage Temperature	T <sub>S</sub>	-20 ~ +85°C	

1. Without offset

### Package & Weight Information

QTY/Box	Weight/each(g)
CALL	CALL

TERMINAL	FUNCTION
1	-V <sub>CC</sub>
2	GND
3	+V <sub>CC</sub>
4	OUTPUT
5	+IN
6	-IN

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



Unless otherwise specified, tolerances shall be ±0.5mm.

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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 <sub>OUT</sub>	4V			
Offset Voltage	V <sub>OE</sub>	<±40mV			
Accuracy @ If <sup>2</sup>	X	±1% of If			
Output Linearity <sup>2</sup> (0..If MAX)	E <sub>L</sub>	≤±1% of If			
Power Supply	V <sub>CC</sub>	±15V±5%			
Response Time	t <sub>r</sub>	<10μ Sec			
Current Consumption	I <sub>c</sub>	12mA typ			
Output Temperature Characteristic	TCE <sub>B</sub>	<±0.1% / °C	<±0.05% / °C		
Offset Temperature Characteristic	V <sub>OT</sub>	<±2mV / °C	<±1mV / °C		
Hysteresis Allowance @ If=0	V <sub>OH</sub>	< ±30mV	<± 20mV		
Withstand Voltage (50/60Hz)	V <sub>d</sub>	2,500VACrms for 1 minute (Sensing Current 0.5mA)			
Insulation Resistance @ 500VDC	R <sub>IS</sub>	≥500MΩ			
Operating Bandwidth (-3dB)	f	DC - 50kHz			
Operating Temperature	T <sub>A</sub>	-10 - +80°C			
Storage Temperature	T <sub>s</sub>	-20 - +85°C			

<sup>1</sup> Small signal only; derating needed to avoid excessive core heating at high frequency

<sup>2</sup> Without offset

### Package & Weight Information

QTY/Box	Weight/each(g)
50	25



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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

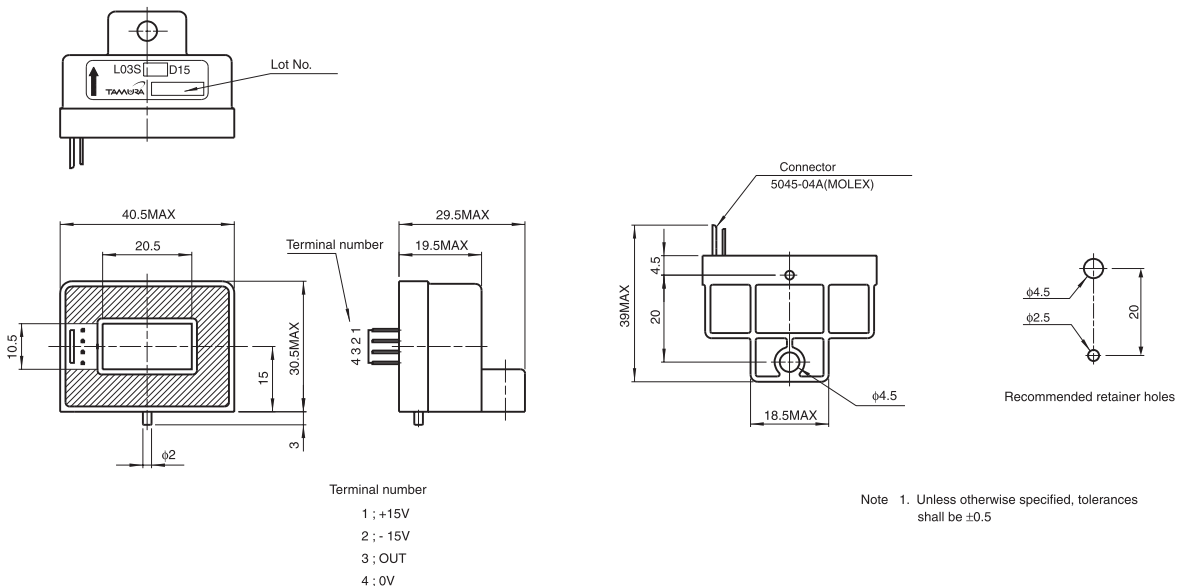
Specification	L03S050D15	L03S100D15	L03S200D15	L03S300D15	L03S400D15	L03S500D15	L03S600D15
Nominal Primary DC Current (If)	50AT	100AT	200AT	300AT	400AT	500AT	600AT
Maximum Current If(max)	±150AT	±300AT	±600AT	±700AT	±700AT	±700AT	±700AT
Output Voltage @ If	V <sub>OUT</sub> 4V						
Offset Voltage V <sub>OE</sub>	<± 40mV			<±30mV			
Accuracy @ If <sup>2</sup>	X			±1% of If			
Output Linearity <sup>2</sup> (0..If MAX)	E <sub>L</sub>			±1% of If			
Power Supply V <sub>CC</sub>	±15V±5%						
Response Time t <sub>r</sub>	≤5μ Sec						
Current Consumption I <sub>c</sub>	12mA typ						
Output Temperature Characteristic TCE <sub>G</sub>	<±0.1% / °C						
Offset Temperature Characteristic V <sub>OT</sub>	<±2mV / °C			<±1mV / °C			
Hysteresis Allowance @ If=0 V <sub>OH</sub>	±30mV			±20mV		±10mV	
Withstand Voltage (50/60Hz) V <sub>d</sub>	2,500VACrms for 1 minute (sensing current 0.5mA)						
Insulation Resistance @ 500VDC R <sub>IS</sub>	≥500MΩ						
Operating Bandwidth <sup>1</sup> (-3dB) f	DC - 50kHz						
Operating Temperature T <sub>A</sub>	-10 - +80°C						
Storage Temperature T <sub>S</sub>	-15 - +90°C						

<sup>1</sup> Small signal only; derating needed to avoid excessive core heating at high frequency

<sup>2</sup> Without offset

### Package & Weight Information

QTY/Box	Weight/each(g)
20	50



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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 =  $\frac{V_{CC}}{2}$

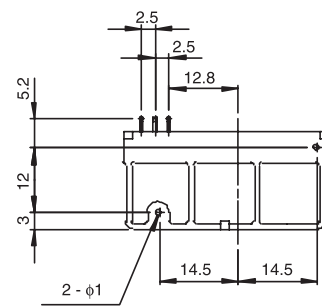
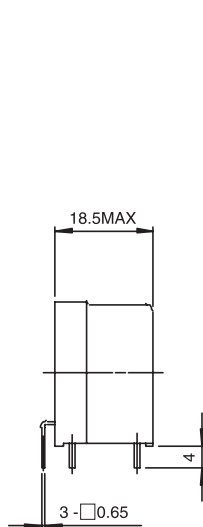
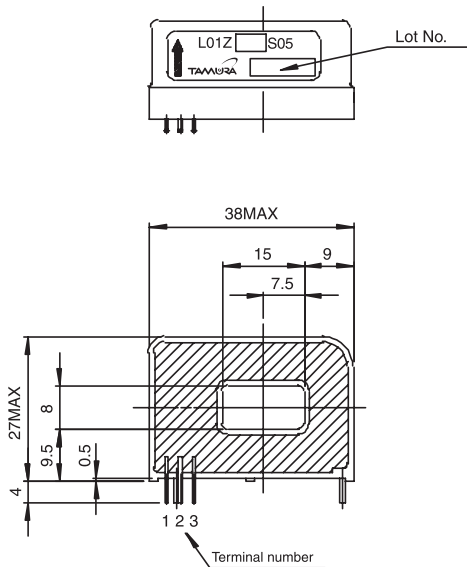
Specification	L01Z050S05	L01Z100S05	L01Z150S05	L01Z200S05	L01Z300S05	L01Z400S05	L01Z500S05	L01Z600S05
Nominal Primary DC Current (If)	50AT	100AT	150AT	200AT	300AT	400AT	500AT	600AT
Maximum Current If(max)	±62.5AT	±125AT	±187.5AT	±250AT	±375AT	±500AT	±625AT	±750AT
Output Voltage @ If	Vref±1.5V				Vref±1.5V			
Offset Voltage V <sub>OE</sub>	2.5V±0.035V				2.5V±0.030V			
Accuracy @ If <sup>2</sup>	X	<±1% of If			<±1% of If			
Output Linearity <sup>2</sup> (0..If MAX)	E <sub>L</sub>				±1% of If			
Power Supply Vcc				5V ±2.0%				
Response Time t <sub>r</sub>				<5μs				
Current Consumption I <sub>c</sub>				<15mA				
Output Temperature Characteristic TCE <sub>o</sub>	<±2mV / °C		<±1.5mV / °C					
Offset Temperature Characteristic V <sub>OT</sub>	<±2mV / °C		<±1mV / °C					
Hysteresis Allowance @ If=0 V <sub>OH</sub>	±8mV			±4mV		±6mV		
Withstand Voltage (50/60Hz) V <sub>d</sub>	2,500VACrms for 1 minute (sensing current 0.5mA)							
Insulation Resistance @ 500VDC R <sub>IS</sub>	≥500MΩ							
Operating Bandwidth <sup>1</sup> (-3dB) f	DC - 50kHz							
Operating Temperature T <sub>A</sub>	-10 - +80°C							
Storage Temperature T <sub>S</sub>	-15 - +85°C							

<sup>1</sup> Small signal only; derating needed to avoid excessive core heating at high frequency

<sup>2</sup> 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
- $\pm 15V$  Supply Voltage
- CE EN50178 (pending)



Specifications Measured at 25°C, RL=10K $\Omega$ , VCC= $\pm 15V$

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 <sub>OUT</sub>	50mA	75mA	100mA	150mA
Conversion Ratio	K <sub>n</sub>	1:2000	1:2000	1:2000	1:2000
Accuracy	X	$\pm 1\%$ of If			
Offset Current (If=0) <sup>1</sup>	I <sub>o</sub>	$\pm 0.5mA$			
Output Linearity <sup>1</sup> (0..If)	E <sub>L</sub>	$\pm 0.25\%$ of If			
Power Supply	V <sub>CC</sub>	$\pm 15V \pm 5\%$ <sup>2</sup>			
Response Time	t <sub>r</sub>	$\leq 1\mu s$			
Current Consumption	I <sub>c</sub>	$\pm 16mA$ <sup>3</sup>			
Output Temperature Characteristic	TC <sub>OUT</sub>	$\pm 0.025\% / ^\circ C$ @ If=0 (Ta=-5 to +70°C)			
Offset Temperature Characteristic	I <sub>OT</sub>	$\pm 0.025mA / ^\circ C$ @ If=0 (Ta=-5 to +70°C)			
Hysteresis Allowance If=0 - Ifmax)	I <sub>OH</sub>	$\leq 0.3mA$			
Withstand Voltage (50/60Hz)	V <sub>d</sub>	2,500VACrms for 1 minute (sensing current 0.5mA)			
Insulation Resistance @ 500VDC	R <sub>IS</sub>	500M $\Omega$			
Frequency Bandwidth (-3dB)	f	DC - 150kHz			
Operating Temperature	T <sub>A</sub>	-10 - +70°C			
Storage Temperature	T <sub>S</sub>	-20 - +85°C			
Secondary Coil Resistance	R <sub>s</sub>	TBD Ohms @ Ta = 70°C (Contact Tamura for additional info)			

<sup>1</sup> Without Offset

<sup>2</sup> Ifmax is Restricted by V<sub>CC</sub>

<sup>3</sup> Output Current not included

### Package & Weight Information

QTY/Box	Weight/each(g)
50	25



Note 1. Unless otherwise specified, tolerances shall be  $\pm 0.5$

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
- $\pm 12V$  or  $\pm 15V$  Supply Voltage
- CE EN50178 (pending)

Specifications Measured at 25°C,  $R_L \pm 15K\Omega$ ,  $V_{CC} = \pm 12V$

Specification		S20S050A	S20S100A	S20S150A	S20S200A	S20S300A
Nominal Primary DC Current	(If)	50A	100A	150A	200A	300A
Maximum Current	$I_{F(max)}$	75A	150A	225A	300A	450A
Output Current @ If	$I_{OUT}$	50mA	100mA	150mA	100mA	150mA
Conversion Ratio	$K_H$	1:1000	1:1000	1:1000	1:2000	1:2000
Offset Current (If=0)	$I_o$			$\pm 0.5mA$		
Accuracy <sup>4</sup>	X			$< \pm 1\%$ of If		
Output Linearity <sup>4</sup> (0..MAX)	$E_L$			$\pm 0.25\%$		
Power Supply	$V_{CC}$			$12V$ or $\pm 15V \pm 5\%$ <sup>2</sup>		
Response Time @ $di/dt=50A/\mu Sec$	$t_r$			$1\mu s$		
Current Consumption	$I_c$			$\pm 16mA$ <sup>3</sup>		
Output Temperature Characteristic	$TCI_{OUT}$			$\pm 0.02\% / ^\circ C$ @ If (Ta=-5 to +70°C)		
Offset Temperature Characteristic	$I_{OT}$			$\pm 0.025mA / ^\circ C$ @ 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	$R_{IS}$			500M $\Omega$		
Frequency Bandwidth (-3dB)	f			DC - 150kHz		
Operating Temperature	$T_A$			-10 - +70°C		
Storage Temperature	$T_S$			-20 - +85°C		
Secondary Coil Resistance	$R_S$			<sup>1</sup> Ohms @ 70°C (Contact Tamura Tech Support)		

<sup>1</sup> TBD

<sup>2</sup> Ifmax is Restricted by Vcc

<sup>3</sup> Output Current not included

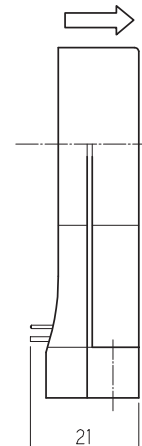
<sup>4</sup> Without offset

### Package & Weight Information

QTY/Box	Weight/each(g)
TBD	46



Note Unless otherwise specified, tolerances shall be  $\pm 0.5$



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

### TAMURA CORPORATION

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## 6 to 25 Amp Applications — Closed Loop

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



Specifications Measured at 25°C, RL=10K $\Omega$ , V<sub>CC</sub>=+5V

Specification	S22P006S05	S22P015S05	S22P025S05
Nominal Primary r.m.s. Current (I <sub>f</sub> )	$\pm 6A$	$\pm 15A$	$\pm 25A$
Maximum Current I <sub>f(max)</sub>	$\pm 18A$	$\pm 45A$	$\pm 75A$
Offset Voltage (I <sub>f</sub> =0) V <sub>REF</sub>	2.5V $\pm$ 30mV	2.5V $\pm$ 20mV	2.5V $\pm$ 15mV
Output Voltage V <sub>OUT</sub>		VREF $\pm$ 0.625V	
Output Voltage Accuracy <sup>1</sup> @ I <sub>f</sub> X		0.625V $\pm$ 10mV	
Output Linearity (0 to I <sub>f</sub> ) E <sub>L</sub>		$\pm 0.25\%$	
Power Supply V <sub>CC</sub>		$\pm 5V \pm 5\%$	
Response Time t <sub>r</sub>		1 $\mu$ s	
Current Consumption I <sub>C</sub>		12.5mA Typ	
Output Temperature Characteristic ICEG		$\pm 0.05mV/^\circ C$	
Offset Temperature Characteristic TC <sub>OUT</sub>	1.25mV/ $^\circ C$	1.25mV/ $^\circ C$	1.25mV/ $^\circ C$
Hysteresis Allowance (I <sub>f</sub> =0 to I <sub>fmax</sub> ) V <sub>OH</sub>		$\leq 0.25mV$	
Withstand Voltage (50/60Hz) V <sub>d</sub>		3,000VACrms for 1 minute (sensing current 0.5mA)	
Insulation Resistance @ 500VDC R <sub>IS</sub>		$\geq 500M\Omega$	
Operating Bandwidth (1dB) f		DC - 200kHz	
Operating Temperature T <sub>A</sub>		-10 - +85 $^\circ C$	
Storage Temperature T <sub>S</sub>		-25 - +100 $^\circ C$	

<sup>1</sup> Without offset

### Package & Weight Information

QTY/Box	Weight/each(g)
100	8



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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

Мы предлагаем:

- Конкуренспособные цены и скидки постоянным клиентам.
- 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.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- 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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