

Miniature Current Transformers

Primary Single-Turn (PCB) Series

The series of PCB Mounted Miniature current transformers are designed specifically for integration into products which require exceptionally accurate primary signal transfor-mation while exposed to harsh environmental operating con-ditions.

An internal precision resistor across the secondary winding of the CT provides a low safe voltage output. It can save time and the installation costs.

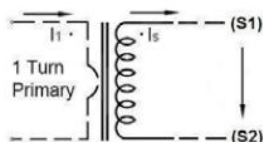
◆ Features

- Primary Single-Turn,PCB Mounted
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installations

◆ Applications

- Current measurement, monitoring and protection for electrical wiring and equipment.
- Instrumentation,Current and power measurement for electric motors, lighting, air compressor,heating and ventilation system, air-condition equipment and automation – control system.
- Current, power and energy monitoring device.
- Relay protection device.

◆ Circuit connection diagram



◆ Technique Index

Electrical Parameter	
Frequency	50-400Hz
Rated Input	0A-250A
Measuring range	5%In-120%In
Rated Output	0-100mA
Ratio	$\leq \pm 0.1\%$
Phase angle	$\leq \pm 5$ 分
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/1000MΩ min

Mechanical Parameter	
Case	ABS /UL94-V0
Bobbin	PBT
Core	Permalloy or Nanocrystalline
Internal structure	Epoxy
Construction	PCB
Operating Temp	$-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Operating Humidity	$\leq 85\%$
Output Connection	Stitch

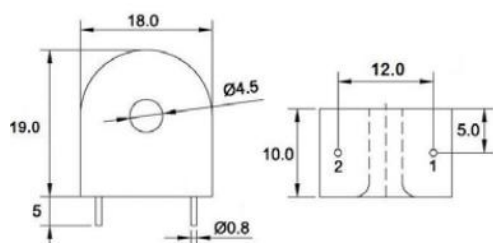
◆ Type Selection

Mfg P/N	Rated Input (A)	Ratio	Burden (Ω)	Accuracy	Dimensions (mm)			
					ID	W	H	T
SCT2011A	1-20A	1000: 1	≤ 200	0.1、0.2	4.5	18.0	19.0	10.0
SCT2011B	1-20A		≤ 200	0.1、0.2	4.5	18.0	20.0	10.0
SCT2011C	1-20A		≤ 200	0.1、0.2	4.5	18.0	19.0	10.0
SCT2021A	1-30A	2500: 1	≤ 200	0.1、0.2	7.0	19.0	21.0	11.0
SCT2021B	1-30A		≤ 200	0.1、0.2	7.0	19.0	21.0	11.0
SCT2031A	1-20A		≤ 200	0.1、0.2	5.0	18.0	19.5	17.8
SCT2041A	1-100A	1000: 1	≤ 200	0.1、0.2	6.0	25.0	26.0	21.5
SCT2051A	1-20A		≤ 200	0.1、0.2	5.7	19.4	19.5	8.6
SCT2051B	1-30A		≤ 200	0.1、0.2	6.7	23.5	25.0	11.0
SCT2051C	1-30A		≤ 500	0.1、0.2	7.0	23.5	25.0	11.5
SCT2051D	1-100A		≤ 800	0.1、0.2	8.9	26.0	28.0	17.0
SCT2051E	1-120A		≤ 1000	0.1、0.2	12.8	38.0	39.1	14.0

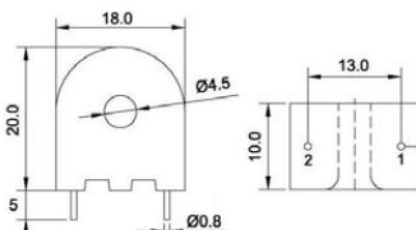
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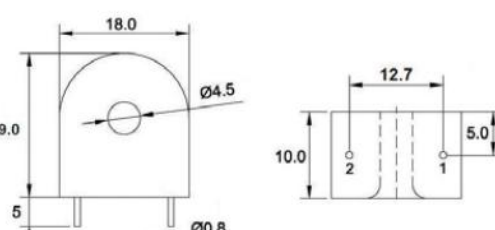
Mfg P/N	Rated Input (A)	Ratio	Burden (Ω)	Accuracy	Dimensions (mm)			
					ID	W	H	T
SCT2061	1-100A	1000: 1	≤ 200	0.1, 0.2	8.7	26.0	27.5	17.5
SCT2071	1-100A		≤ 200	0.1, 0.2	6.5	30.0	33.0	19.0
SCT2081	1-20A		≤ 200	0.1, 0.2	5.0	17.0	17.0	15.0
SCT3311A	1-20A	2500: 1	≤ 200	0.1, 0.2	5.0	17.6	17.6	19.3
SCT3311B	1-100A	3000: 1	≤ 1000	0.1, 0.2	5.0	28.0	28.0	20.0
SCT3311C	1-50A		≤ 200	0.1, 0.2	4.5	26.5	25.5	16.0
SCT3331A	1-100A	1000: 1	≤ 800	0.1, 0.2	12.0	32.0	32.0	26.0
SCT3331B	1-250A		≤ 1000	0.1, 0.2	18.0	40.0	40.0	17.0
SCT3331C	1-250A		≤ 1000	0.1, 0.2	20.0	40.0	40.0	32.0
SCT2	1-30A		≤ 800	0.1, 0.2	8.0	29.4	31.2	17.7
SCT3	1-30A		≤ 800	0.1, 0.2	7.0	25.0	27.3	15.0



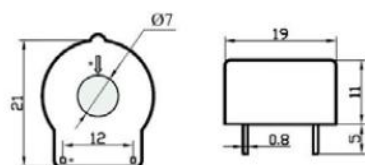
SCT2011A



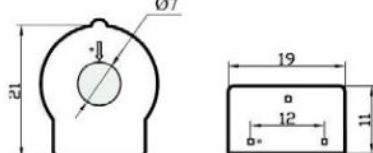
SCT2011B



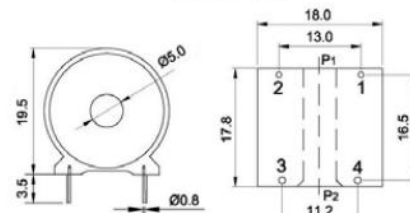
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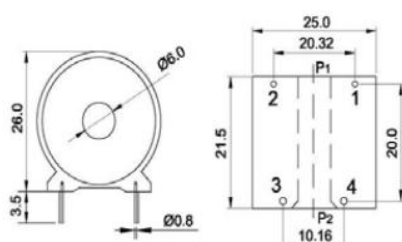
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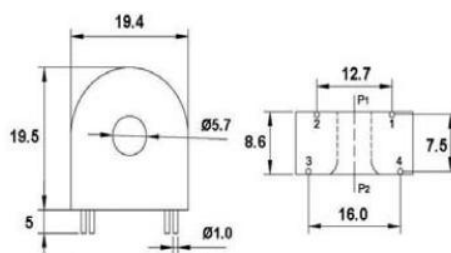
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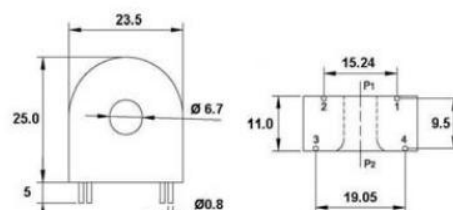
SCT2031A



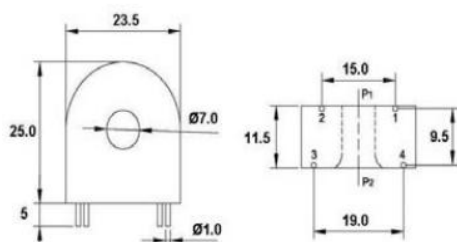
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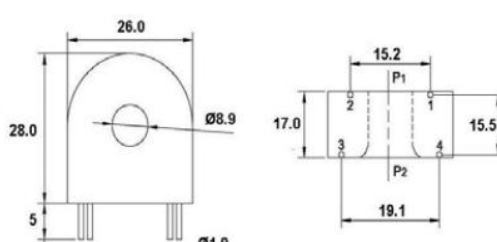
SCT2051A



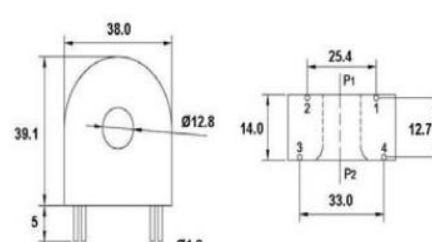
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SCT2051C



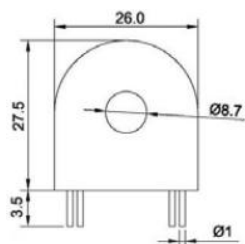
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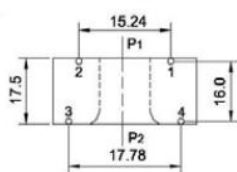
SCT2051E

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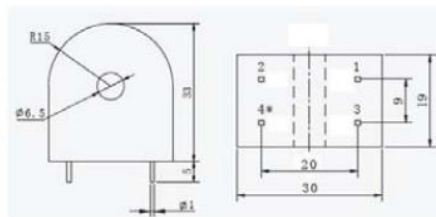
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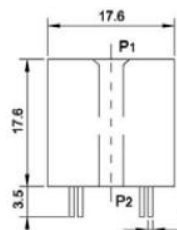
SCT2061



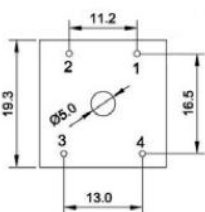
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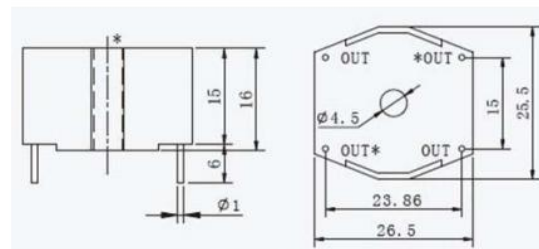
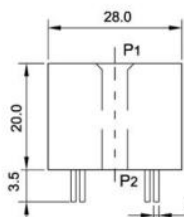
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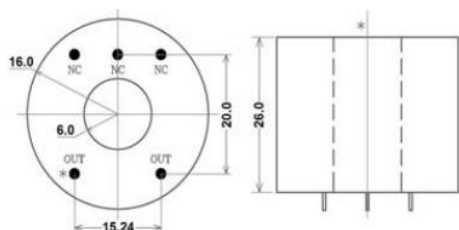
SCT3311A



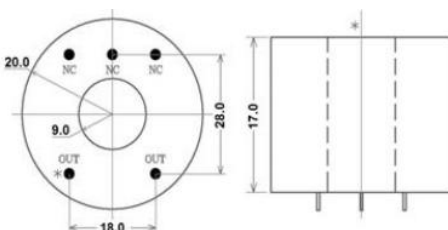
SCT3311B



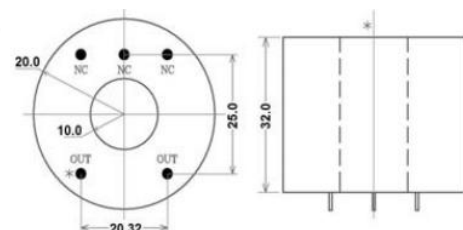
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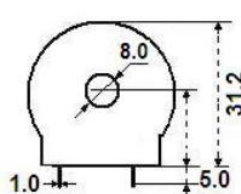
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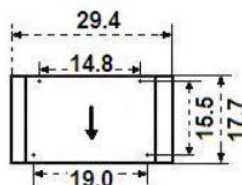
SCT3331B



SCT3331C



SCT2



SCT3

