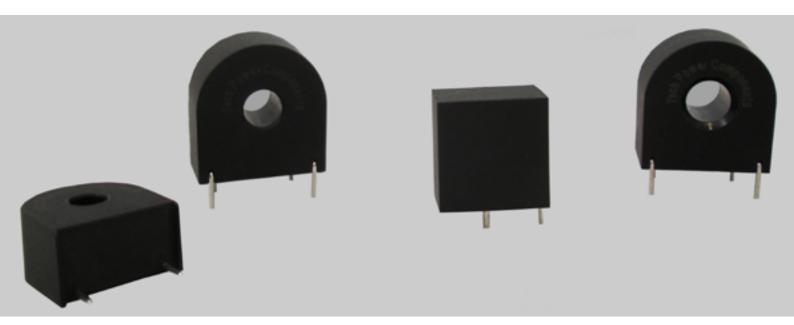


Tech Power Components



Current Sense Transformers

Nanocrystalline core

High Accuracy





Tech Power electronics develops a new standard range of current sense transformers fully encapsulated made with nanocrystalline core.

They are designed for power electronic applications which require a highly-accurate current measurement.

In comparison with others soft magnetic materials, nanocrystalline alloys is the best material to be used in toroidal core for current transformers, due to its high magnetic permeability and low core losses.

Advantages

- High permeability: smaller error in the measurement of current and lower phase angle error so higher accuracy
- High saturation induction: smaller size and lighter weight
- Excellent thermal stability: larger operating temperature range

Standards

- RoHS
- Reach
- Plastic materials meet UL94 V-0 requirements







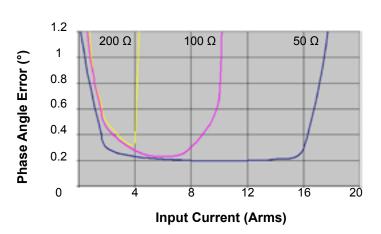
10A Current Sense Transformers SCTN10-750

Electrical Characteristics (Ambient Temperature = 25°C)

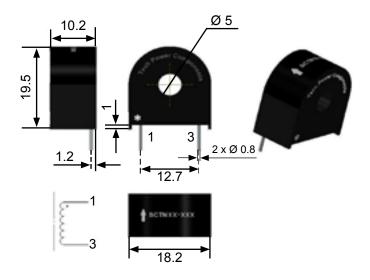
SCTN10 - 750	
Current Range	0 ~ 10 A
Turn ratio	1:750
Internal Resistance	25Ω
Frequency Range	50 - 400Hz
Phase Angle Error	≤60'
Linearity	≤0.5%
Accuracy class	0.5
Rated Burden Resistance	≤50Ω
Operating Temperature Range	-40°C to +125°C
Storage Temperature Range	-40°C to +125°C

Output Characteristics





Mechanical Characteristics



Weight: 6g Unless otherwise stated, all dimensions in mm \pm 0.2

- Arrow designates direction of primary current in phase with pin 1 (identified by * on the box)
- Isolation Pri to Sec: 3,000 Vac min

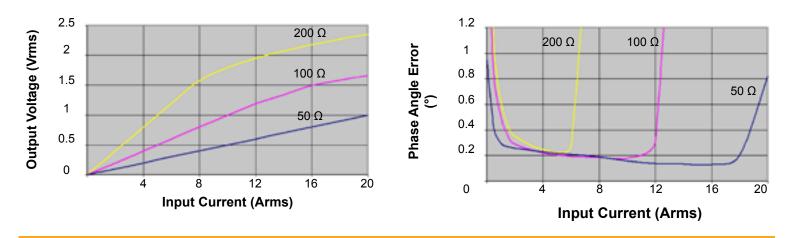


12A Current Sense Transformers SCTN12-1000

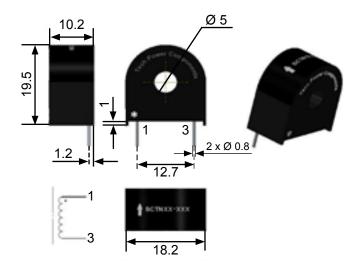
Electrical Characteristics (Ambient Temperature = 25°C)

SCTN12 - 1000	
Current Range	0 ~ 12 A
Turn ratio	1:1000
Internal Resistance	50Ω
Frequency Range	50 - 400Hz
Phase Angle Error	≤60'
Linearity	≤0.5%
Accuracy class	0.5
Rated Burden Resistance	≤50Ω
Operating Temperature Range	-40°C to +125°C
Storage Temperature Range	-40°C to +125°C

Output Characteristics



Mechanical Characteristics



Weight: 6g Unless otherwise stated, all dimensions in mm \pm 0.2

- Arrow designates direction of primary current in phase with pin 1 (identified by * on the box)
- Isolation Pri to Sec: 3 KVac min

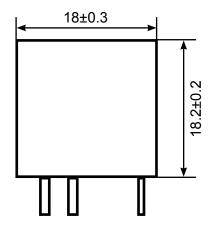


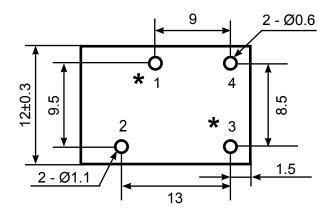
20A Current Sense Transformers SCTN20-2000

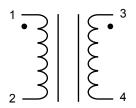
Electrical Characteristics (Ambient Temperature = 25°C)

SCTN20 - 2000	
Current Range	0 ~ 20 A
Turn ratio	1:2000
Internal Resistance	150 Ω
Frequency Range	50 - 400Hz
Phase Angle Error	≤20' (input: 1A, burden resistance: 100 Ω)
Linearity	≤0.2% (5% lp to 120% lp)
Accuracy class	0.2
Rated Burden Resistance	≤100 Ω
Operating Temperature Range	-40°C to +125°C
Storage Temperature Range	-40°C to +125°C

Mechanical Characteristics







Weight: 8 g Unless otherwise stated, all dimensions in mm \pm 0.2

pins 1 & 2: primary inputs

• pins 3 & 4: secondary outputs

Isolation Pri to Sec: 3 KVac min

• * : same polarity

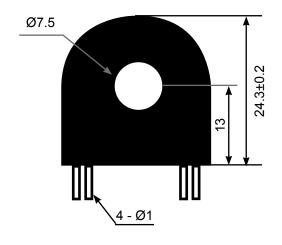


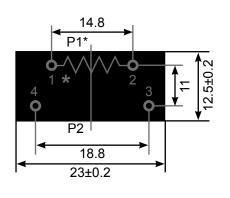
30A Current Sense Transformers SCTN30-1000

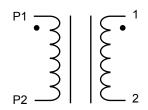
Electrical Characteristics (Ambient Temperature = 25°C)

SCTN30 - 1000	
Current Range	0 ~ 30 A
Turn ratio	1:1000
Internal Resistance	40 Ω
Frequency Range	50 - 400Hz
Phase Angle Error	≤15' (input: 5A, burden resistance: 50 Ω)
Linearity	≤0.3% (5% lp to 120% lp)
Accuracy class	0.5
Rated Burden Resistance	≤50 Ω
Operating Temperature Range	-40°C to +125°C
Storage Temperature Range	-40°C to +125°C

Mechanical Characteristics







Weight: 14 g Unless otherwise stated, all dimensions in mm \pm 0.2

- pins 1 & 2: secondary outputs
- pins 3 & 4: blind pins
- Isolation Pri to Sec: 4,5 KVac min
- * : same polarity

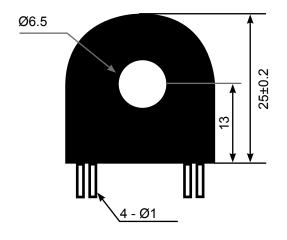


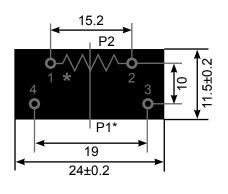
70A Current Sense Transformers SCTN70-2500

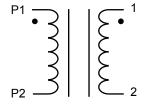
Electrical Characteristics (Ambient Temperature = 25°C)

SCTN70 - 2500	
Current Range	0 ~ 70 A
Turn ratio	1:2500
Internal Resistance	250 Ω
Frequency Range	50 - 400Hz
Phase Angle Error	≤20' (input: 1A, burden resistance: 100 Ω)
Linearity	≤0.1% (5% lp to 120% lp)
Accuracy class	0.2
Rated Burden Resistance	≤100 Ω
Operating Temperature Range	-40°C to +125°C
Storage Temperature Range	-40°C to +125°C

Mechanical Characteristics







Weight: 15 g Unless otherwise stated, all dimensions in mm \pm 0.2

- pins 1 & 2: secondary outputs
- pins 3 & 4: blind pins
- Isolation Pri to Sec: 4,5 KVac min
- * : same polarity





A trademark developed by



Our trade

We produce, design and develop professional electronic applications and provide high added value products and innovative services for this market.

Our vision

In response to the need to take into account societal issues, we want to make a decisive contribution through the creation of new industrial solutions and be the European leader in B2B industrial electronics.



Open Institute is a relationship and exchange platform between the worlds of business, education and the social environment. It is a business incubator for new projects. Open Institute covers following expertises: Monitor technology intelligence - prospective - strategical marketing - research programs.















