SLLC Series

High Frequency Resonant Transformers



Signal's High Frequency Resonant Transformers SLLC series are used in resonant converters 360-400 VDC input for high efficiency, energy sensitive applications within delicate higher end products.

SLLC models are all horizontal printed circuit board through hole mount components available in three ETD geometric platform sizes. With reinforced insulation, IEC compliance and 4 kV isolation these low profile parts can deliver standard 12 V, 24 V and 48 V output voltages in power capacities of 150 W, 200 W and 250 W.

General Features

- Horizontal PCB THT mounting platforms: ETD34, ETD39, ETD44
- High efficiency designs
- Low eddy current losses
- Reinforced insulation
- IEC 61558-2-16 compliance

Specifications

- Input voltage: 360 – 400 VDC
- Switching frequency: 70 – 120 kHz
- Operating temperature: -40°C to +125°C
- Storage temperature: -20°C to +60°C
- Ambient temperature: -40°C to +85°C
- Dielectric strength: 4 kV AC

Applications

- LED lighting
- PCs / Notebooks
- Power supplies
- Resonant converters

Markets

- Lighting
- Consumer
- Industrial
- Telecom
- Security

signal TRANSFORMER
a bel group

RoHS Compliant

REACH COMPLIANCE

belfuse.com/signal

Please read our datasheet & drawing disclaimer here.

PRODUCT IDENTIFICATION

SLLC - ETD34 - 48

Type / Product Series
SLLC = High Frequency Resonant Transformers

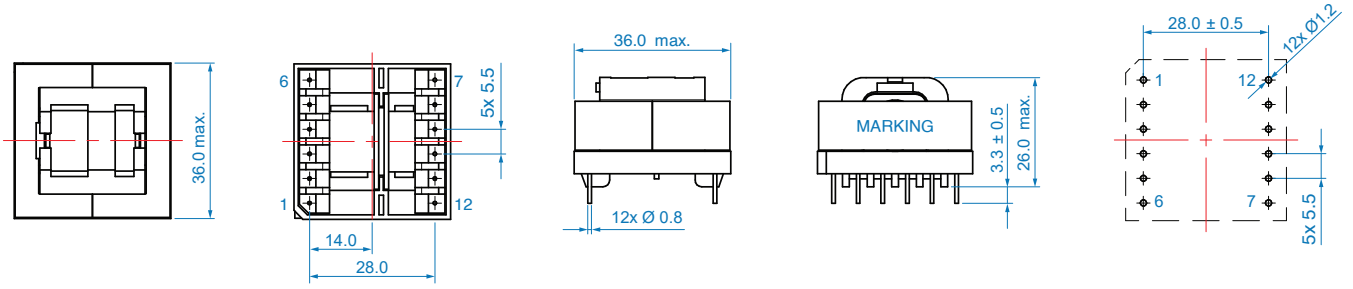
Mounting Platform
ETD34
ETD39
ETD44

Output Voltage
12 = 12 V
24 = 24 V
48 = 48 V

MECHANICAL SPECIFICATIONS

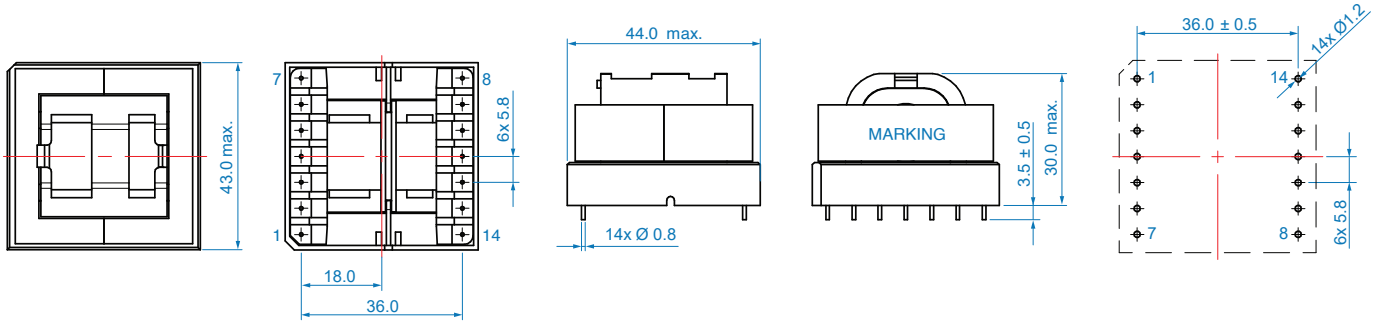
Dimensions are in mm.

SLLC-ETD34



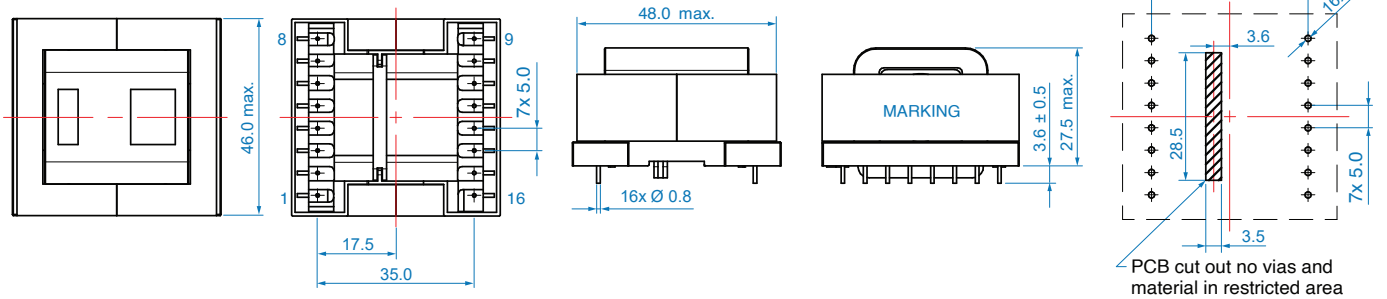
Recommended land pattern

SLLC-ETD39



Recommended land pattern

SLLC-ETD44



Recommended land pattern

* *MARKING: e.g: SLLC-EDT39-24*
DATE CODE

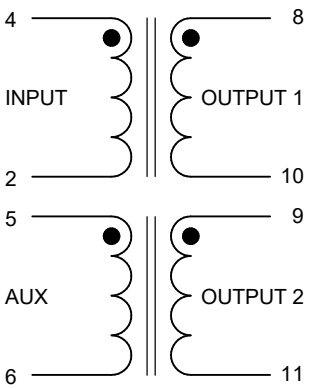
Custom versions available upon request.

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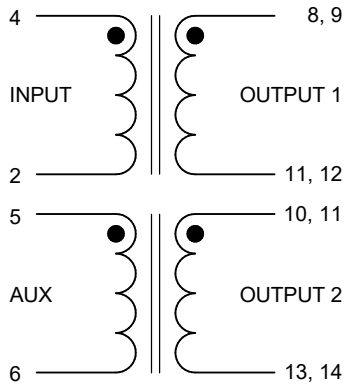
© 2024 Signal Transformer Specifications subject to change without notice

SCHEMATICS

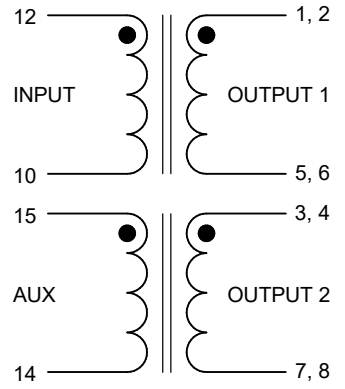
SLLC-ETD34



SLLC-ETD39



SLLC-ETD44



ELECTRICAL SPECIFICATIONS

Part Number	Input L [2] ± 10% (µH)	Input LL [2] ± 10% (µH)	Input I_{SAT} [3] (Typ) (A)	Intput DCR (Max) (mΩ)	Output DCR [1 & 2] (Max) (mΩ)	Aux DCR (Max) (mΩ) / Voltage (V)	Turns Ratio I:O:A (± 3%)	Output Current (Parallel) (A)	Output Voltage (Parallel) (V)	Output Power Total (W)
SLLC-ETD34-12	600	100	2.0	260	3.1	144/18	35:2:2:3	12.5	12	150
SLLC-ETD34-24	600	100	2.0	260	8.0	144/18	35:4:4:3	6.2	24	150
SLLC-ETD34-48	600	100	2.0	260	26.5	144/18	35:8:8:3	3.1	48	150
SLLC-ETD39-12	500	95	3.5	145	2.5	145/18	35:2:2:3	16.7	12	200
SLLC-ETD39-24	500	95	3.5	145	7.5	145/18	35:4:4:3	8.3	24	200
SLLC-ETD39-48	500	95	3.5	145	21.5	145/18	35:8:8:3	4.2	48	200
SLLC-ETD44-12	476	100	5.0	128	4.0	192/18	35:2:2:3	20.8	12	250
SLLC-ETD44-24	400	65	4.3	75	4.5	150/18	27:3:3:2	10.4	24	250
SLLC-ETD44-48	400	65	4.3	75	12.2	150/18	27:6:6:2	5.2	48	250

[1] Electrical specifications at 20°C and 33% relative humidity
[2] "L" & "LL" test conditions: 100 kHz, 100 mV, 0 ADC
[3] "I_{SAT}" is the saturation current at which "L" drops by 20%

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About Signal Transformer

Signal Transformer is known as the world's leader of wire wound magnetic solutions since 1959. With over 50 years of experience manufacturing transformers, chokes, inductors and custom or modified standard products. Signal offers not only the most comprehensive line of certified standard power conversion products, with our vast engineering, manufacturing and regulatory resources; Signal Transformer excels in the design and manufacturer of cost effective, specialized platforms.



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