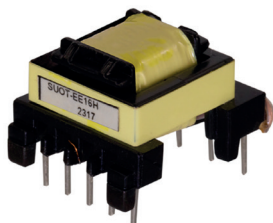
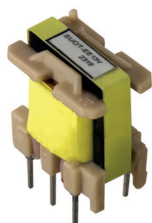


# SUOT Series

## High Frequency Universal Off-Line Transformers



Signal's SUOT Series of High Frequency Transformers are designed for universal Input Off Line Switch Mode Power Supplies operating with multiple integrated control circuits and various types of switching elements.

These through hole parts are reinforced insulated, IEC compliant and available in both horizontal and vertical printed circuit mount styles.

Built around two distinct EE13 and EE16 geometric size platforms the SUOT units deliver efficiently typical industry standard low voltage outputs at power levels of 3 W and 9 W.

### General Features

- Horizontal & vertical PCB THT mounting platforms: EE13 and EE16
- High efficiency designs
- Reinforced insulation
- Min. creepage & clearance 6 mm
- IEC 61558-2-16 compliance

### Specifications

- Input Voltage: 125 – 375 VDC (85 – 265 VAC)
- Switching Frequency: 132 kHz
- Operating Temperature: -40°C to +125°C
- Storage Temperature: -20°C to +60°C (<40°C, 75% RH in pack)
- Ambient Temperature: -40°C to +85°C
- Dielectric Strength: 4 kV AC

### Applications

- LED lighting
- PCs / Notebooks
- AC-DC converters
- SMPS

### Markets

- Lighting
- Consumer
- Industrial
- Telecom
- Security

## PRODUCT IDENTIFICATION

### SUOT - EE13 V - 12

**Type / Product Series**

SUOT = High Frequency Universal Off-Line Transformers

**Output Voltage**

12 = 12 V

**Mounting Platform**

EE13  
EE16

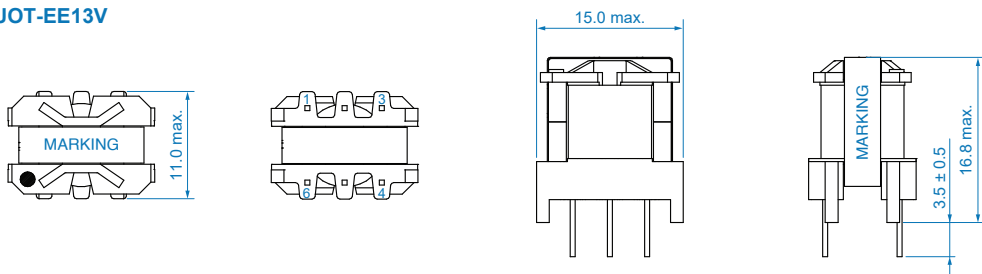
**Mounting**

H = Horizontal  
V = Vertical

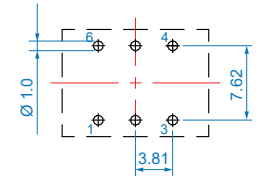
## MECHANICAL SPECIFICATIONS

Dimensions are in mm.

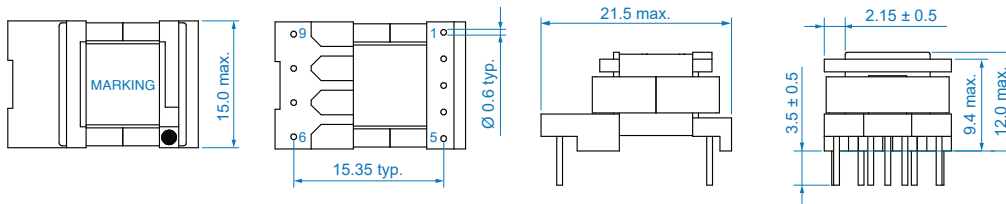
### SUOT-EE13V



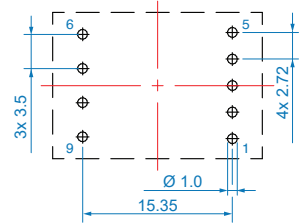
### Recommended land pattern



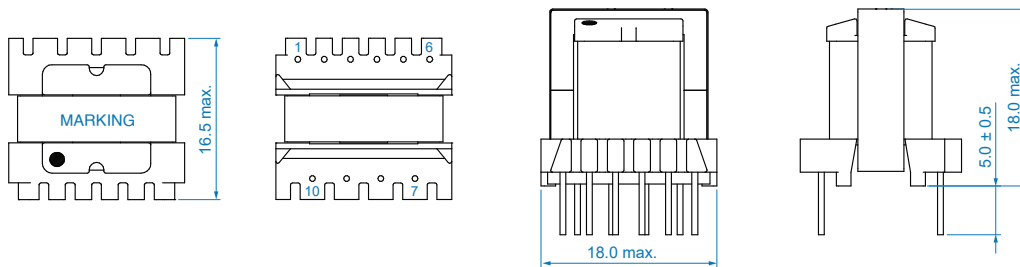
### SUOT-EE13H



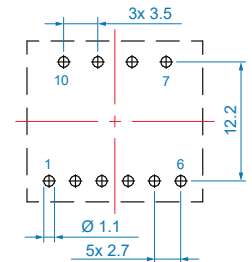
### Recommended land pattern



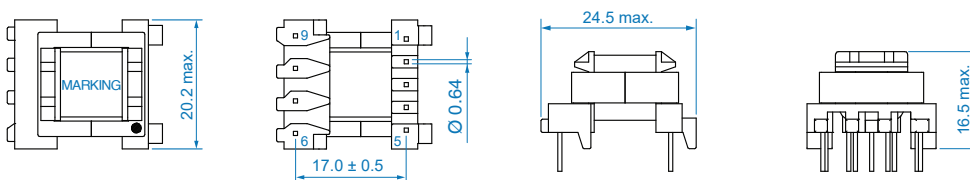
### SUOT-EE16V



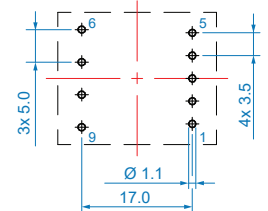
### Recommended land pattern



### SUOT-EE16H



### Recommended land pattern



\* MARKING: e.g. SUOT-EE13V-12  
DATE CODE

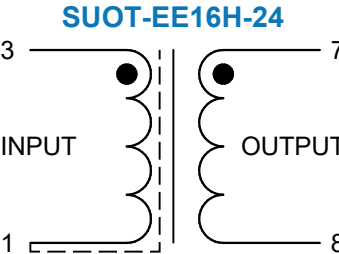
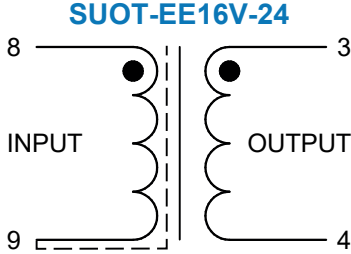
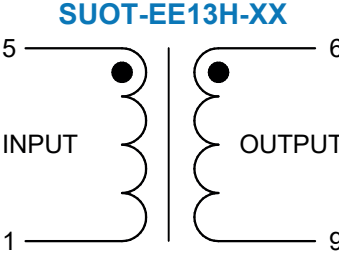
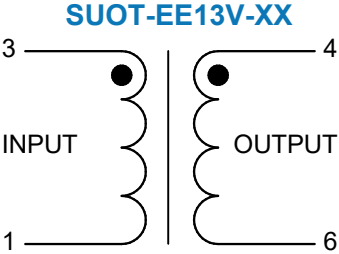
Custom versions available upon request.



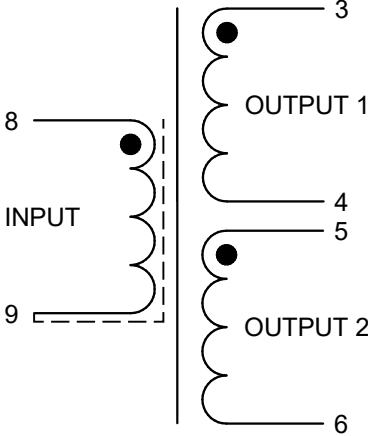
128 Atlantic Avenue, Lynbrook, NY 11563  
Toll Free 866-239-5777 | Tel 516-239-5777 | Fax 516-239-7208  
sales@signaltransformer.com | techhelp@signaltransformer.com

[belfuse.com/signal](http://belfuse.com/signal)

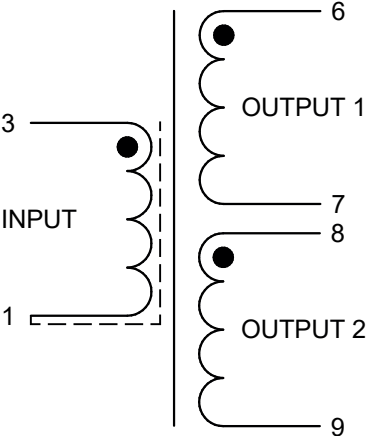
SCHEMATICS



**SUOT-EE16V-5 / SUOT-EE16V-12**



**SUOT-EE16H-5 / SUOT-EE16H-12**



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## ELECTRICAL SPECIFICATIONS

Part Number	Input L <sup>2</sup> ± 10% (mH)	Input LL <sup>2</sup> (Max) (μH)	Input I <sub>SAT</sub> <sup>3</sup> (Typ) (A)	Input DCR (Max) (Ω)	Turns Ratio I:Vo1:Vo2 (± 3%)	Vo2 DCR (Max) (Ω)	Vo1 DCR (Max) (Ω)	Vo1/Vo2 Current (A)	Vo1/Vo2 Voltage (V)	Output Power Total (W)
SUOT-EE13V-5	2.8	280	0.20	11	18.9 : 1	—	0.050	0.60	5	3
SUOT-EE13V-12	2.8	220	0.21	11	8.1 : 1	—	0.290	0.25	12	3
SUOT-EE13V-24	2.8	245	0.21	11	4 : 1	—	1.200	0.125	24	3
SUOT-EE13H-5	2.8	180	0.20	8	18.9 : 1	—	0.050	0.60	5	3
SUOT-EE13H-12	2.8	175	0.21	8	8.1 : 1	—	0.290	0.25	12	3
SUOT-EE13H-24	2.8	172	0.21	8	4 : 1	—	1.200	0.13	24	3
SUOT-EE16V-5	0.9	175	0.85	4.3	19 : 1 : 1	0.026	0.026	0.90 / 0.90	5 / 5	9
SUOT-EE16V-12	0.9	145	0.80	4.3	9.5 : 1 : 1	0.075	0.075	0.35 / 0.35	12 / 12	9
SUOT-EE16V-24	0.9	145	0.80	4.3	4.4 : 1	—	0.210	0.40	24	9
SUOT-EE16H-5	0.9	120	0.85	4.3	19 : 1 : 1	0.028	0.028	1.00 / 1.00	5 / 5	9
SUOT-EE16H-12	0.9	112	0.80	4.3	9.5 : 1 : 1	0.094	0.094	0.35 / 0.35	12 / 12	9
SUOT-EE16H-24	0.9	110	0.80	4.3	4.4 : 1	0.155	0.155	0.40	24	9

<sup>1</sup> Electrical specifications at 20°C and 33% relative humidity

<sup>2</sup> “L” & “LL” test conditions: 10 kHz, 100 mV, 0 ADC

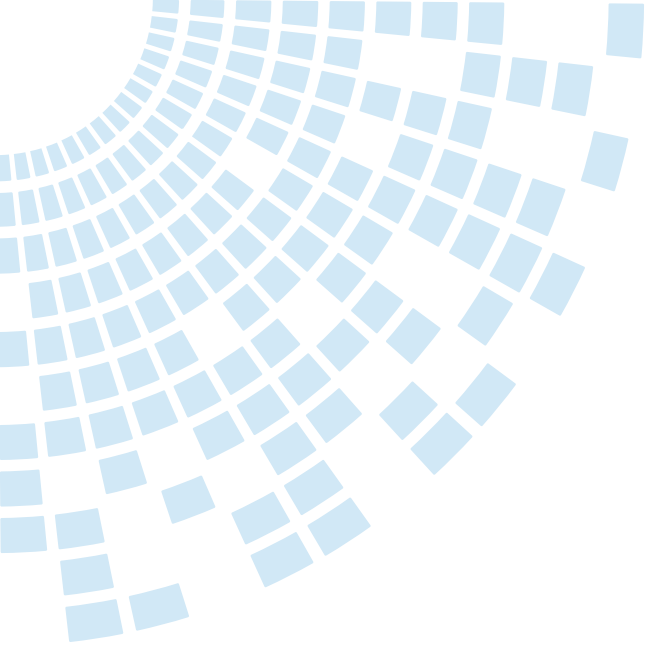
<sup>3</sup> “I<sub>SAT</sub>” is the saturation current at which “L” drops by 10%

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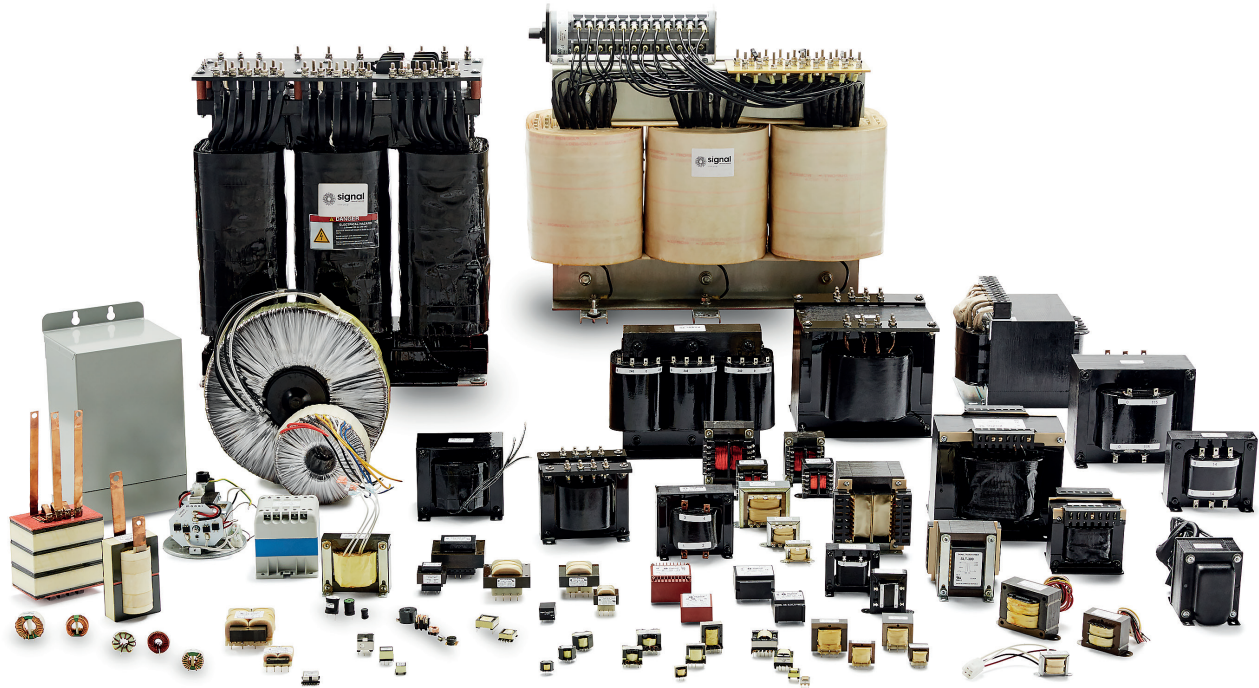
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## About Signal Transformer

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.



For more information,  
please contact us:

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Lynbrook, NY 11563

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Tel +1 516-239-5777

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