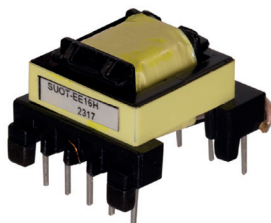
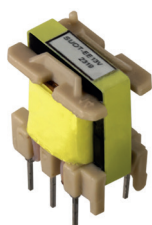




SUOT Series

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

Mounting Platform
EE13
EE16

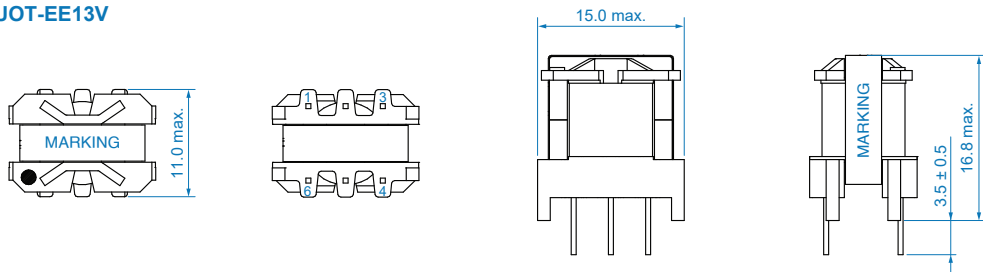
Output Voltage
12 = 12 V

Mounting
H = Horizontal
V = Vertical

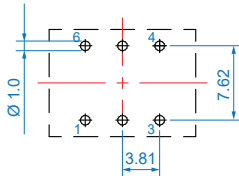
MECHANICAL SPECIFICATIONS

Dimensions are in mm.

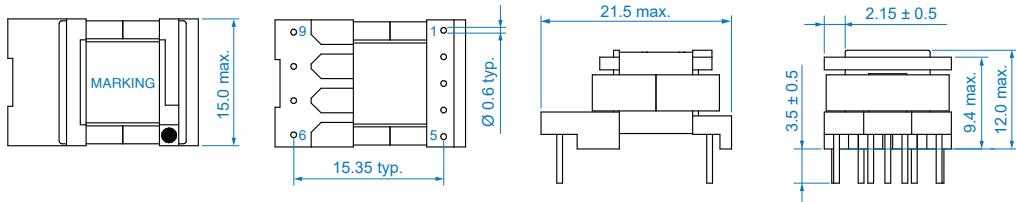
SUOT-EE13V



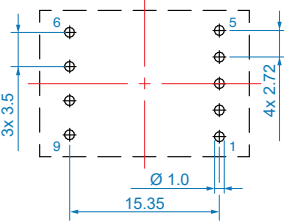
Recommended land pattern



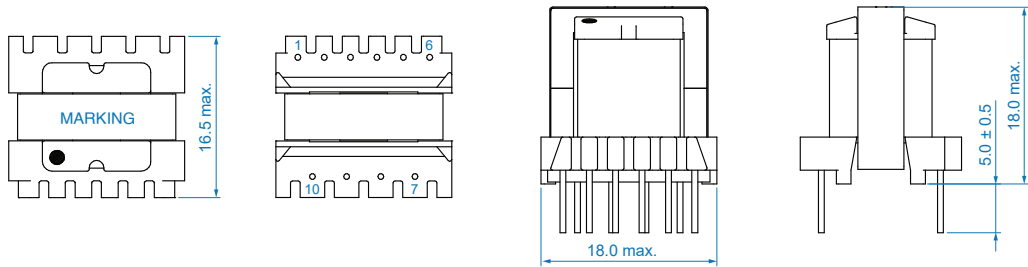
SUOT-EE13H



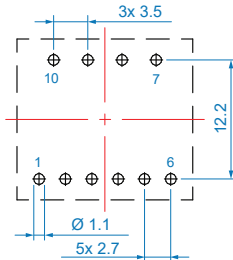
Recommended land pattern



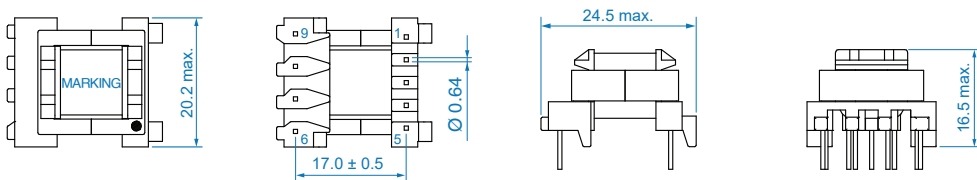
SUOT-EE16V



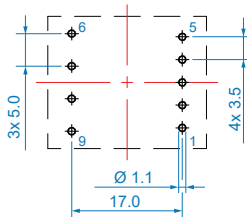
Recommended land pattern



SUOT-EE16H



Recommended land pattern



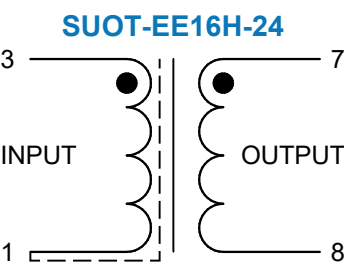
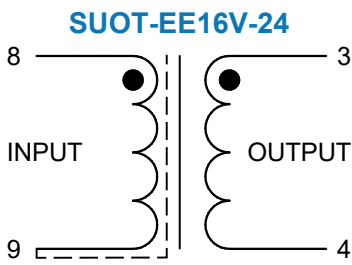
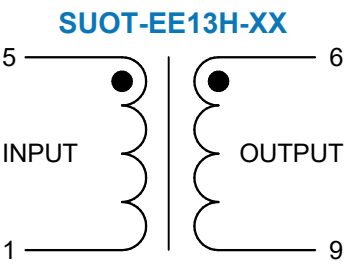
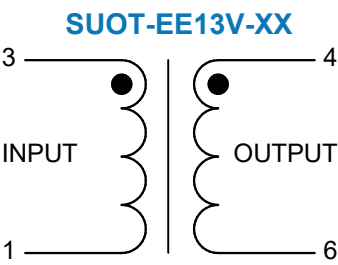
* MARKING: e.g: SUOT-EE13V-12
DATE CODE

Custom versions available upon request.

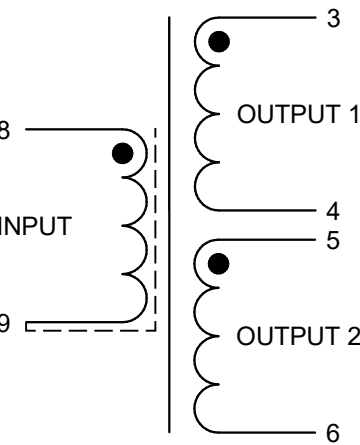


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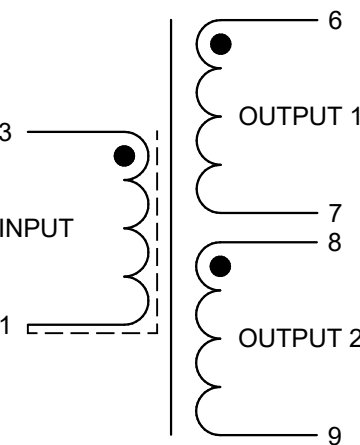
SCHEMATICS



SUOT-EE16V-5 / SUOT-EE16V-12



SUOT-EE16H-5 / SUOT-EE16H-12



Custom versions available upon request.

ELECTRICAL SPECIFICATIONS

Part Number	Input L ² ± 10% (mH)	Input LL ² (Max) (μH)	Input ISAT ³ (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

¹ Electrical specifications at 20°C and 33% relative humidity

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

³ “ISAT” is the saturation current at which “L” drops by 10%

Custom versions available upon request.

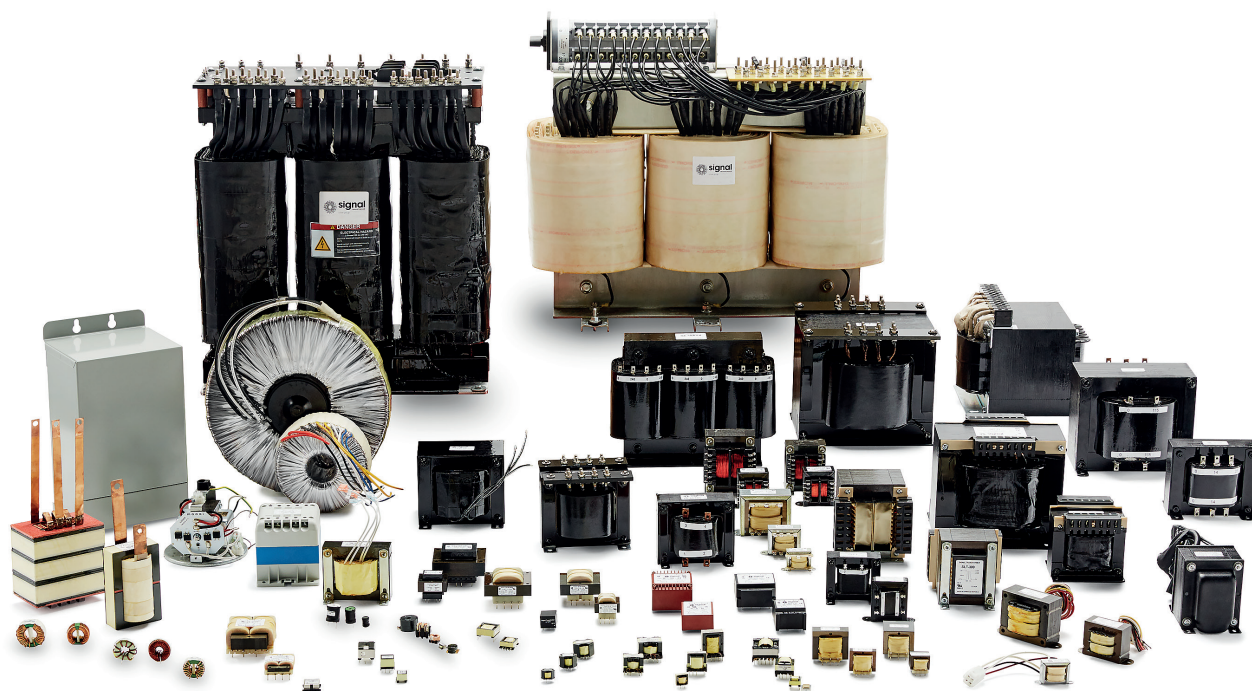


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About Signal Transformer

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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Mouser Electronics

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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[SUOT-EE13V-12](#) [SUOT-EE13V-24](#) [SUOT-EE13H-24](#) [SUOT-EE16V-12](#) [SUOT-EE13V-5](#) [SUOT-EE13H-5](#) [SUOT-EE16V-5](#) [SUOT-EE13H-12](#) [SUOT-EE16H-24](#) [SUOT-EE16H-12](#) [SUOT-EE16H-5](#) [SUOT-EE16V-24](#)