



SUOST Series

High Frequency Universal Line SMD Transformers

Signals' SUOST 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 printed circuit mount parts are reinforced insulated, IEC compliant and available in horizontal surface mount technology styles.

Built around an EE16/8/5 geometric size platform, the SUOST units deliver typical industry standard low voltage outputs, at power levels of 12 W, 13 W, 15 W and 16 W.



General Features

- Horizontal SMD mounting platform: EE16/8/5
- High efficiency designs
- Reinforced insulation
- Min. creepage & clearance 6.5 mm
- Moisture sensitivity level MSL 1
- IEC 61558-2-16 compliance

Specifications

- Input Voltage: 85 – 265 VAC (125 – 375 VDC)
- Switching Frequency: 60 – 150 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



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PRODUCT IDENTIFICATION

SUOST - 13 - 1205

Type / Product Series

SUOST = High Frequency Universal Line SMD Transformers

Output Power

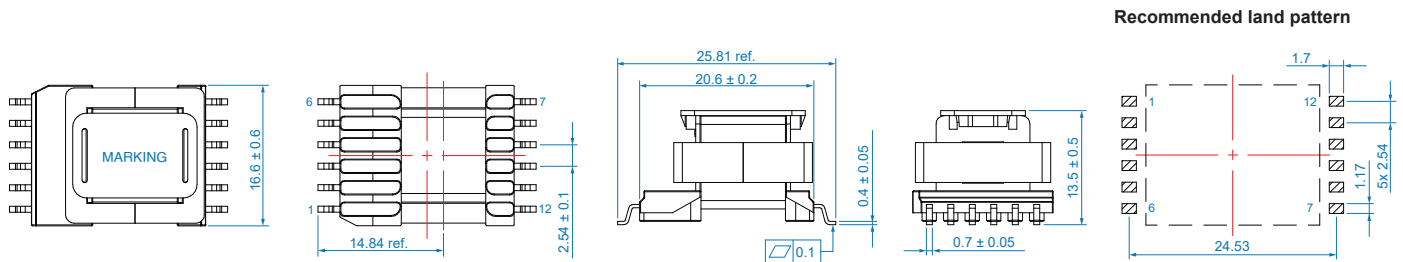
13 = 13 W

Output Voltage

1205 = 12 V (Vo1), 5 V (Vo2)

MECHANICAL SPECIFICATIONS

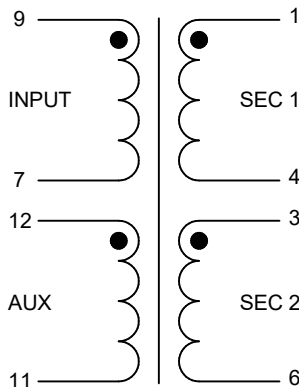
Dimensions are in mm.



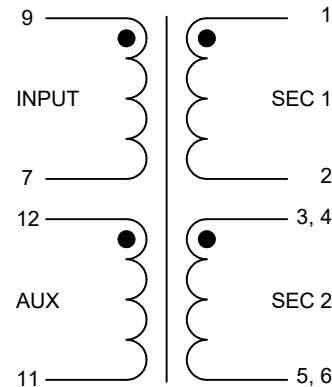
* MARKING: e.g. SUOST-XX-XXXX
DATE CODE

SCHEMATICS

SUOST-12-0505 / SUOST-13-1212 / SUOST-13-2424 /
SUOST-15-0505 / SUOST-16-1212



SUOST-12-2405 / SUOST-13-1205 / SUOST-15-1205



Custom versions available upon request.



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ELECTRICAL SPECIFICATIONS

Part Number	Input L ² ± 10% (mH)	Input LL ² (Max) (μH)	Input I _{SAT} ³ (Typ) (A)	Input DCR (Max) (Ω)	Turns Ratio I:Vo1:Vo2:Aux (± 3%)	Aux DCR / Voltage (Max) (Ω) / (V)	Vo1/Vo2 DCR (Max) (Ω)	Vo1/Vo2 Current (A)	Vo1/Vo2 Voltage (V)	Output Power Total (W)
SUOST-12-0505	1.31	40	0.80	3.00	140:6:6:16	0.450/14	0.025/0.025	1.25/1.25	5/5	12
SUOST-13-1212	1.25	53	0.80	2.92	136:13:13:15	0.400/14	0.092/0.092	0.55/0.55	12/12	13
SUOST-12-2405	1.31	35	0.80	3.00	140:22:6:16	0.400/14	0.450/0.025	0.30/1.15	24/5	12
SUOST-13-1205	1.25	35	0.80	3.00	140:9:7:18	0.400/14	0.190/0.030	0.55/1.25	12/5	13
SUOST-13-2424	1.25	40	0.80	3.00	140:27:27:16	0.450/14	0.620/0.620	0.28/0.28	24/24	13
SUOST-15-0505	1.50	50	0.80	4.20	160:7:7:18	0.400/14	0.034/0.034	1.50/1.50	5/5	15
SUOST-16-1212 ⁴	1.50	60	0.80	4.20	160:14:14:16	0.450/14	0.140/0.140	0.65/0.65	12/12	16
SUOST-15-1205 ⁴	1.50	60	0.80	6.50	160:10:7:16	0.370/14	0.086/0.024	0.7/1.36	12/5	15

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 10%

⁴ Input voltage for SUOST-15-1205 & SUOST-16-1212 = 195 – 265 VAC

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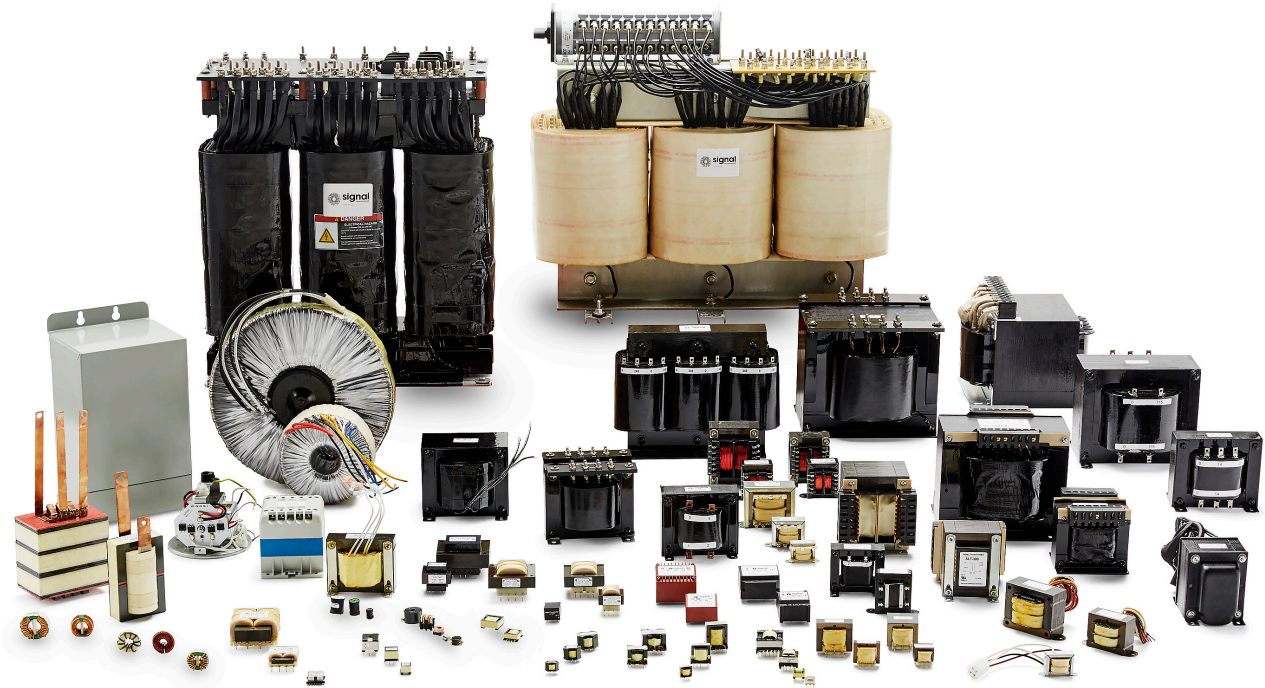
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About Signal Transformer

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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