



# Product Technical Specification

Code : **06002**

Product: Switch Mode Transformer 750W 41kHz 350uH 48V

Class Code : **1892.0026**

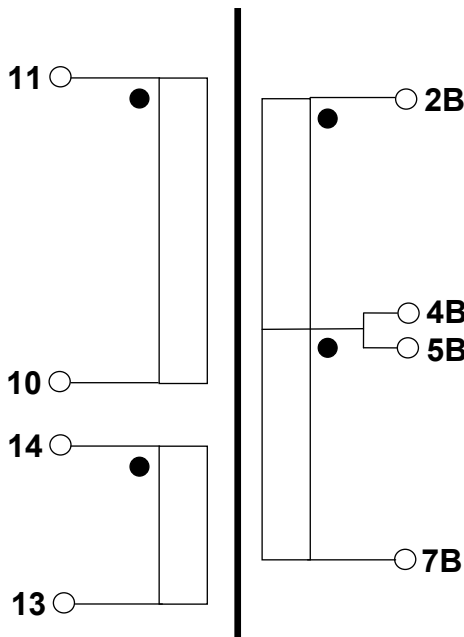
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## TYPICAL APPLICATION

TRANSFORMER FOR RESONANT CONVERTER IN APPLICATIONS WITH L6599 CONTROLLER. THE LEAKAGE INDUCTANCE TRADE-OFF AND THE SPECIAL COIL FORMER THAT MINIMIZES THE DIMENSIONS, MAKE THE TRANSFORMER SUITABLE FOR APPLICATIONS WITH HIGH PERFORMANCES.

## SCHEMATIC



## TECHNICAL DATA

### INDUCTANCE

(MEASURE 1kHz, TA 20°C)

PIN 11-10	350 uH ± 15%
PIN 14-13	2.7 uH ± 15%
PIN 2B-4B	16.5 uH ± 15%
PIN 5B-7B	16.5 uH ± 15%

### RESISTANCE

(MEASURE D.C, TA 20°C)

PIN 11-10	32 mΩ MAX
PIN 14-13	62 mΩ MAX
PIN 2B-4B	4.5 mΩ MAX
PIN 5B-7B	4.5 mΩ MAX

### TRANSFORMER RATIO

(MEASURE 10KHZ, 10-12 IN CC, TA 20°C)

PIN 11-10 ↔ 14-13	11.5 ± 0.5
PIN 11-10 ↔ 2B-4B	4.6 ± 1
PIN 11-10 ↔ 5B-7B	4.6 ± 1

### LEAKAGE INDUCTANCE

(MEASURE 11-10 AND 2B-4B-5B-7B IN S.C, F 10kHz, TA 20°C)

62 uH NOM

### LEAKAGE INDUCTANCE

(MEASURE 11-10 AND 2B-4B-5B-7B, F 100kHz, TA 20°C)

61 uH NOM

### OPERATING FREQUENCY

(P<sub>MAX</sub> 750W, TA 20°C)

75÷150 KHZ NOM

### AMBIENT TEMPERATURE RANGE

(P<sub>MAX</sub> 750W, WITH SELF TRISE 50°C)

-20°C÷+80°C

### THERMAL CLASS

B

### STORAGE TEMPERATURE RANGE

-20°C÷+85°C

### PRIMARY TO SECONDARY INSULATION

(F 50Hz, DURATION TEST 2", TA 20°C)

4K V

### MAXIMUM DIMENSIONS

55x57mm H43mm

### WEIGHT

170 g APPROX

## PIN DESCRIPTION

PIN(*)	FUNCTION	PIN(*)	FUNCTION
1A-1B <sub>X</sub>	NOT PRESENT	9	NOT PRESENT
2A-2B <sub>X</sub>	SECONDARY D1-D3	10	PRIMARY DRAIN SOURCE
3A-3B <sub>X</sub>	NOT PRESENT	11	PRIMARY CR 240nF
4A-4B <sub>Y</sub>	SECONDARY GROUND	12	NOT PRESENT
5A-5B <sub>Y</sub>		13	AUXILIARY
6A-6B <sub>Z</sub>	NOT PRESENT	14	AUXILIARY GROUND
7A-7B <sub>Z</sub>	SECONDARY D4-D2	15	NOT PRESENT
8A-8B <sub>Z</sub>	NOT PRESENT		

(\*)PIN WITH THE SAME SUBSCRIPT MUST BE CONNECTED TOGETHER ON PCB



Electromagnetic components  
Switch mode power supply

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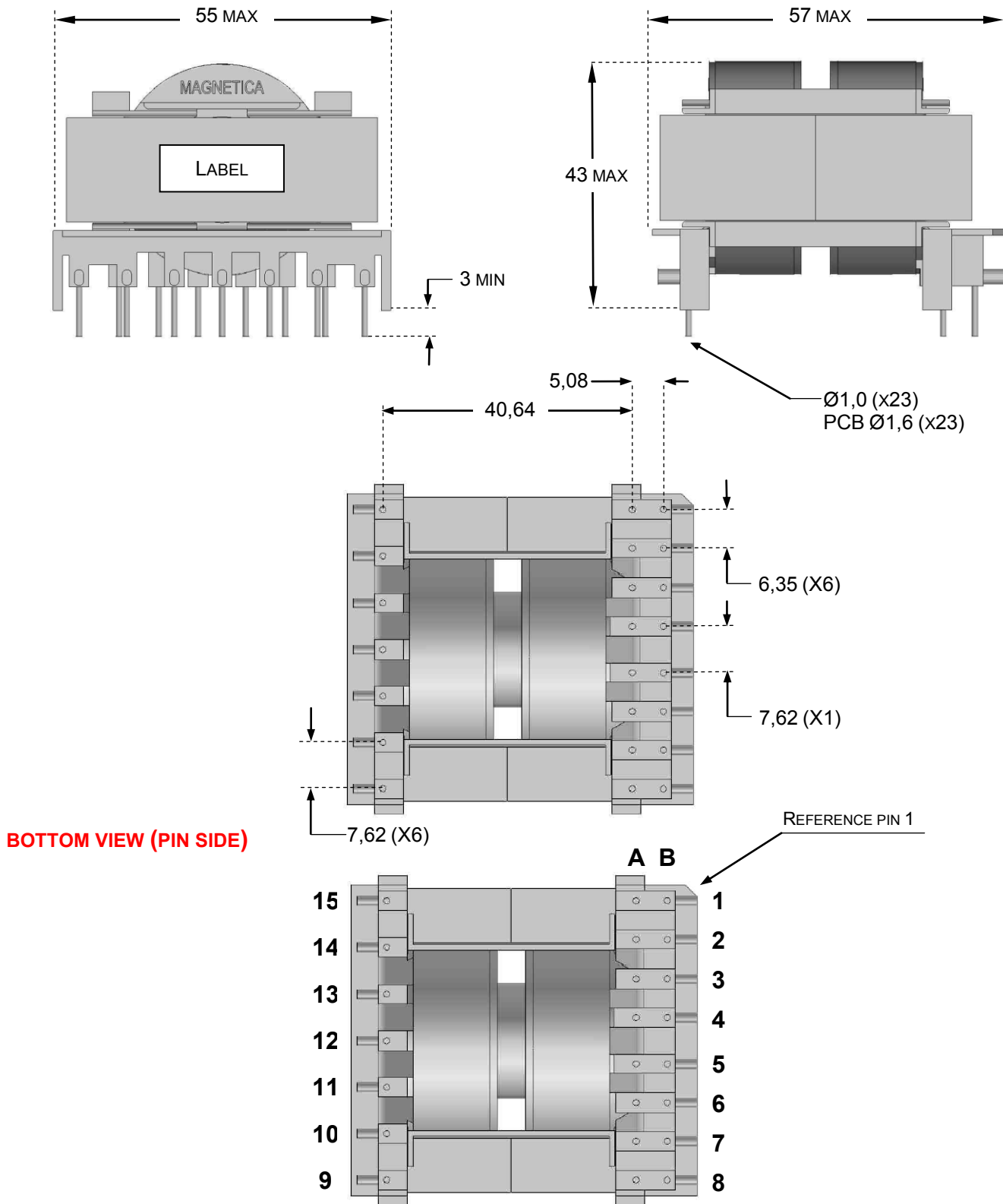
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## DIMENSIONAL DRAWING



**BOTTOM VIEW (PIN SIDE)**

DIMENSIONS IN MILLIMETERS, DRAWING NOT IN SCALE

**A B**



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