



Product Technical Specification

Code : **06817**

Product: Switch Mode Transformer 750W 37.5uH 65V

Class Code : **1892.0035**

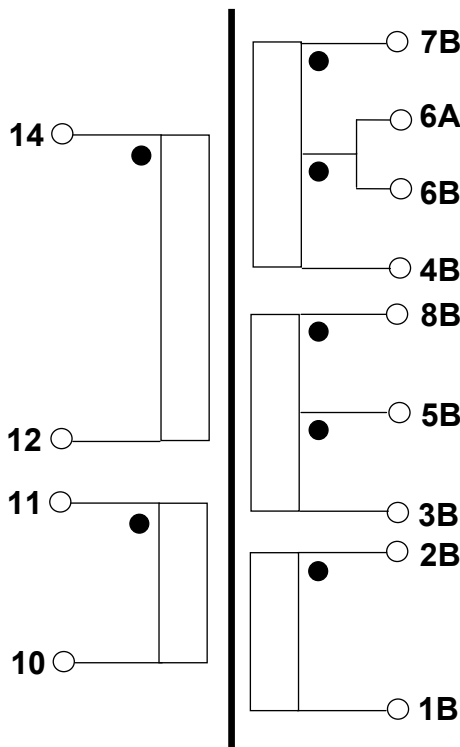
Date : 14.06.2012 Revision: 0

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TYPICAL APPLICATION

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

SCHEMATIC



TECHNICAL DATA

INDUCTANCE

(MEASURE 1KHZ, TA 20°C)

| | |
|-----------|---------------|
| PIN 14-12 | 37.5 uH ± 10% |
| PIN 11-10 | 3.6 uH ± 10% |
| PIN 7B-6A | 32.4 uH ± 10% |
| PIN 6B-4B | 32.4 uH ± 10% |
| PIN 8B-5B | 3.4 uH ± 10% |
| PIN 5B-3B | 3.4 uH ± 10% |
| PIN 2B-1B | 3.4 uH ± 10% |

RESISTANCE

(MEASURE D.C, TA 20°C)

| | |
|-----------|------------|
| PIN 14-12 | 8 mΩ MAX |
| PIN 11-10 | 203 mΩ MAX |
| PIN 7B-6A | 13 mΩ MAX |
| PIN 6B-4B | 13 mΩ MAX |
| PIN 8B-5B | 45 mΩ MAX |
| PIN 5B-3B | 45 mΩ MAX |
| PIN 2B-1B | 45 mΩ MAX |

TRANSFORMER RATIO

(MEASURE 10KHZ, WITH TOLERANCE ±0.5, TA 20°C)

| | |
|-------------------|----------|
| PIN 14-12 ⇔ 11-10 | 3.33 NOM |
| PIN 14-12 ⇔ 7B-6A | 1.33 NOM |
| PIN 14-12 ⇔ 6B-4B | 1.33 NOM |
| PIN 14-12 ⇔ 8B-5B | 4.01 NOM |
| PIN 14-12 ⇔ 5B-3B | 4.01 NOM |
| PIN 14-12 ⇔ 2B-1B | 4.01 NOM |

LEAKAGE INDUCTANCE

(MEASURE 14-12 AND 1+8 A AND B IN S.C, F 10KHZ, TA 20°C)

11.6 uH NOM

LEAKAGE INDUCTANCE

(MEASURE 14-12 AND 1+8 A AND B IN S.C, F 100KHZ, TA 20°C)

11.3 uH NOM

OPERATING FREQUENCY

(P_{MAX} 750W, TA 20°C)

50 KHZ MIN

RESONANCE FREQUENCY

(CR 270nF, TA 20°C)

90 KHZ NOM

AMBIENT TEMPERATURE RANGE

(P_{MAX} 750W, WITH SELF TRISE 45°C)

-20°C ÷ +85°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 H41mm

WEIGHT

170 g APPROX

PIN DESCRIPTION

| PIN(*) | FUNCTION | PIN(*) | FUNCTION |
|--------------------|--------------------------------|-----------------|------------------------------------|
| 1A-1B _x | SECONDARY 18.5V TO CATHODE D9 | 9 | NOT CONNECTED |
| 2A-2B _x | SECONDARY 18.5V TO CATHODE D11 | 10 | AUXILIARY GROUND |
| 3A-3B _x | SECONDARY +18.5V 0.5A | 11 | AUXILIARY |
| 4A-4B _x | SECONDARY +65V | 12 _A | PRIMARY (CR 270nF) |
| 5A-5B _z | SECONDARY GROUND | 13 _A | |
| 6A-6B _z | | 14 _B | |
| 7A-7B _z | SECONDARY -65V | 15 _B | PRIMARY DRAIN SOURCE (220+380 VDC) |
| 8A-8B _z | SECONDARY -18.5V 0.5A | | |

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



Electromagnetic components
Switch mode power supply

Via Marcora, 20 60022 Castelfidardo (AN)
Tel +39 071 7823855 www.magnetica.eu

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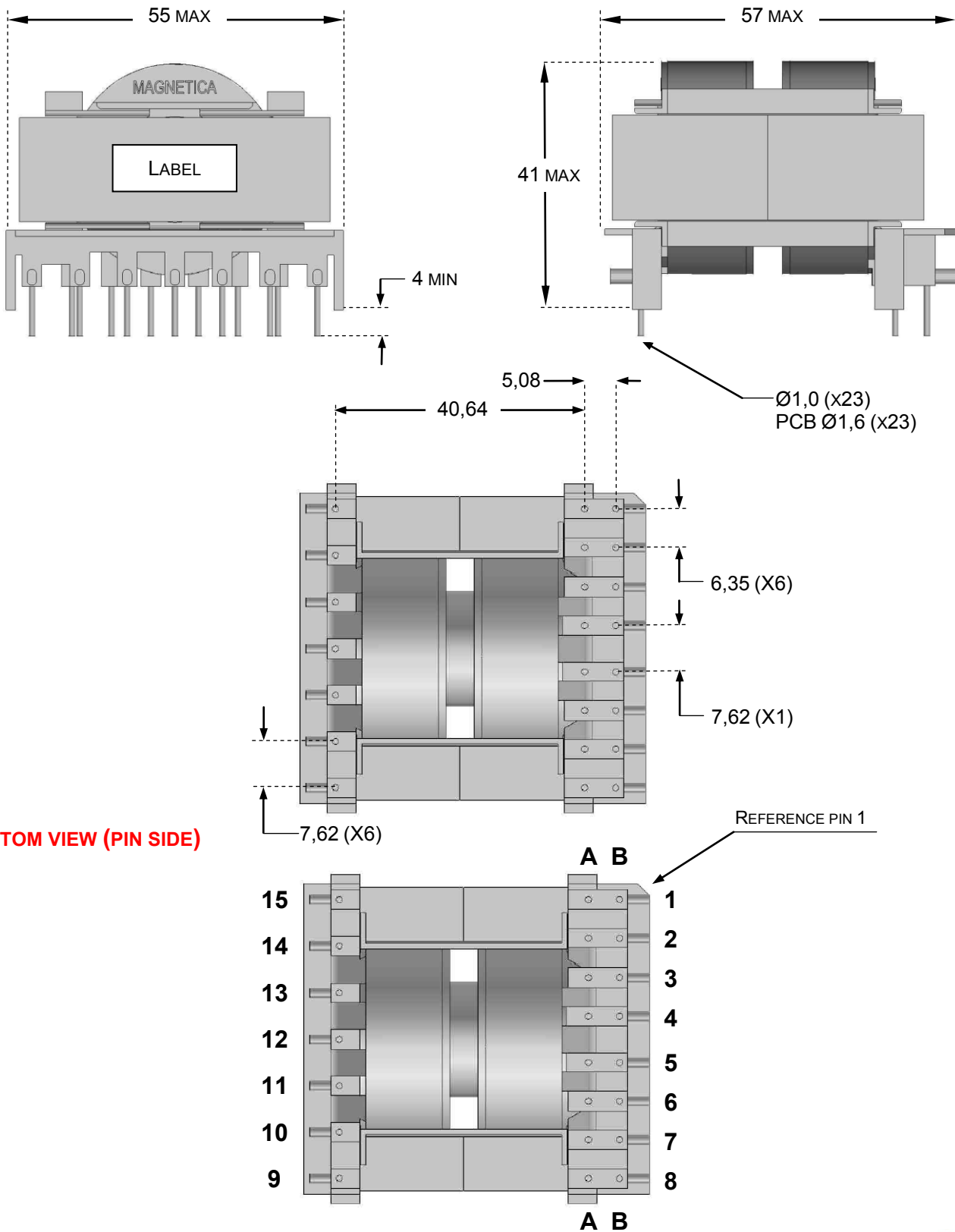
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DIMENSIONAL DRAWING



BOTTOM VIEW (PIN SIDE)

DIMENSIONS IN MILLIMETERS, DRAWING NOT IN SCALE



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