



Product Technical Specification

Code : **06816**

Product: PFC Inductor 1.1mH 0.3A 120W

Class Code : **2233.0001**

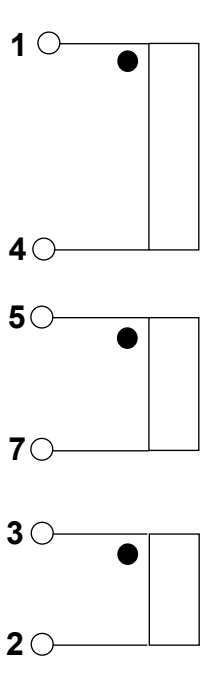
Date : 03.04.2012 | Revision: 0

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TYPICAL APPLICATION

INDUCTOR FOR BUCK, BOOST AND BUCK-BOOST DC/DC CONVERTER, SUITABLE ALSO IN HALF-BRIDGE, PUSH-PULL AND FULL-BRIDGE APPLICATIONS

SCHEMATIC



TECHNICAL DATA

INDUCTANCE

(MEASURE 1KHZ, TA 20°C)

PIN 1-7 (WITH 4 AND 5 IN S.C.) 1.31 mH ±10%
PIN 3-2 17 uH ±10%

RESISTANCE

(MEASURE D.C, TA 20°C)

PIN 1-4 740 mΩ MAX
PIN 5-7 196 mΩ MAX
PIN 3-2 290 mΩ MAX

TRANSFORMER RATIO

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

PIN 1-4 ↔ 5-7 3.75 NOM
PIN 1-4 ↔ 3-2 7.5 NOM

LEAKAGE INDUCTANCE

(MEASURE 1-7 AND 4-5 IN S.C., F 10KHZ, TA 20°C)

277 uH NOM

PARASITIC CAPACITANCE

(MEASURE 1-7, WITH 4-5 IN S.C., F_{RIS} 2.1MHZ, TA 20°C)

5.2 pF NOM

OPERATING CURRENT

(MEASURE DC, TA 20°C)

0.3 A MAX

SATURATION CURRENT

(MEASURE DC, L ≥ 50%NOM, TA 20°C)

2.2 Ap MAX

RESONANCE FREQUENCY

(TA 20°C)

2.1 MHz NOM

AMBIENT TEMPERATURE RANGE

(IR 0.3A MAX, WITH SELF TRISE 45°C)

-20°C ÷ +85°C

THERMAL CLASS

B

STORAGE TEMPERATURE RANGE

-20°C ÷ +85°C

PRIMARY TO AUXILIARY INSULATION

(F 50HZ, DURATION TEST 2" SEC, TA 20°C)

500 V

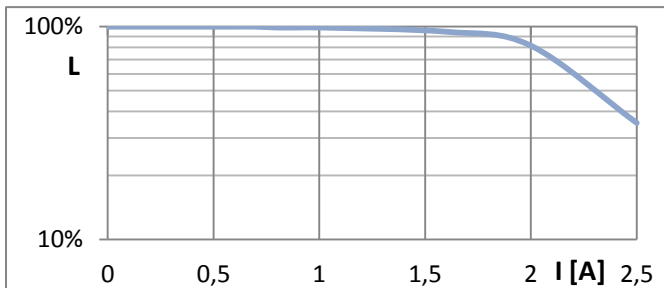
MAXIMUM DIMENSIONS

20.7x20.5 H21.6mm

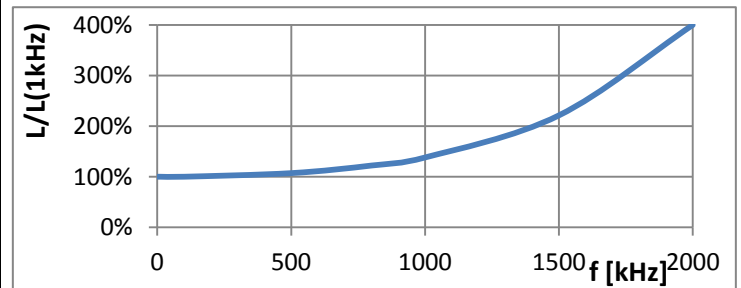
WEIGHT

18 g CIRCA

INDUCTANCE VS CURRENT



INDUCTANCE VS FREQUENCY



PIN DESCRIPTION

PIN(*)	FUNCTION	PIN(*)	FUNCTION
1	PRIMARY DRAIN	4 _A	PRIMARY CENTER TAP
2	AUXILIARY GROUND	5 _A	
3	AUXILIARY	6	PRIMARY +VB (EUROPEAN RANGE)
		7	

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



Electromagnetic components
Switch mode power supply

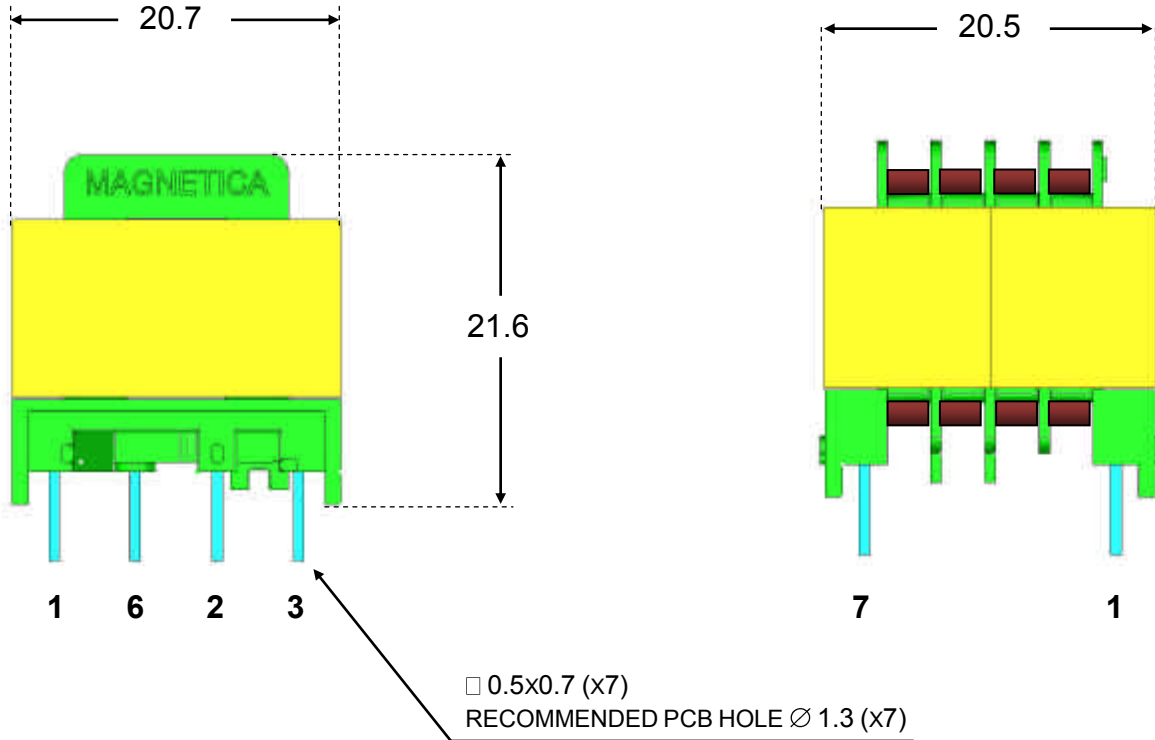
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STP04 MOR&D0014 REV01 10/01/12

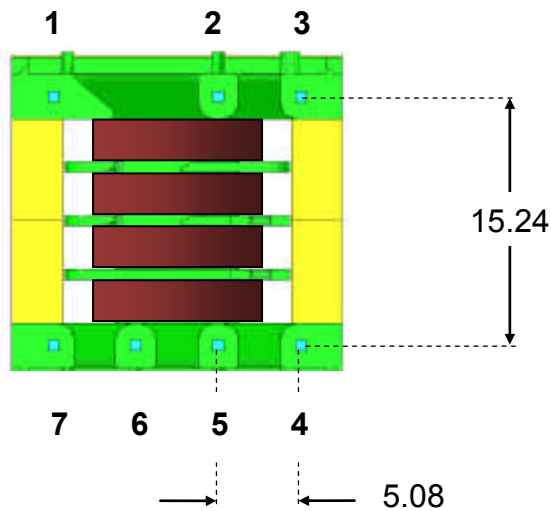
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DIMENSIONAL DRAWING



BOTTOM VIEW (PIN SIDE)



DIMENSIONS IN MILLIMETERS, DRAWING NOT IN SCALE

