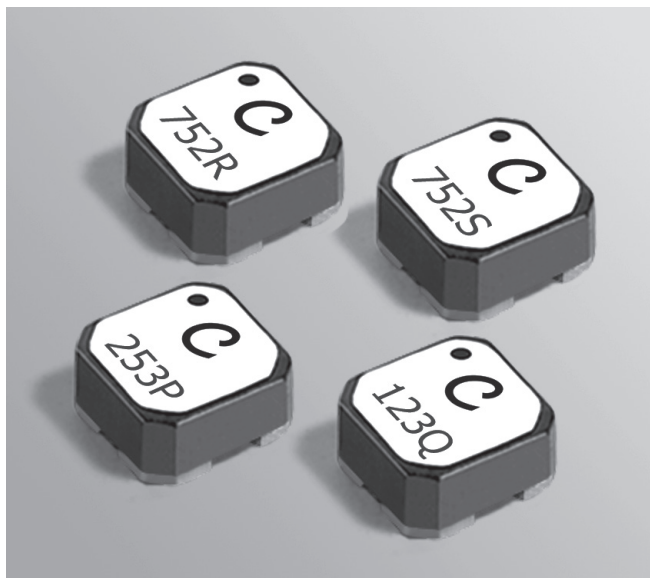



NEW!

Coupled Inductors - LPR6235

For Step-Up, Resonant & Flyback Applications



- Can be used as step-up or flyback transformers in DC-DC converters or as autotransformers
- Perfect for low voltage step-up in energy harvesting applications
- Selected by Linear Technology for the LTC3108 and LTC3109 Ultralow Voltage Step-Up Converter and Power Managers

These shielded parts are only 3.5 mm high and 6 mm square. The excellent coupling coefficient ($k = 0.95$) makes them ideal for use in a variety of applications. They can be used as flyback transformers and step-up pulse transformers.

The high I_{sat} and low DCR ratings of these parts provide high efficiency and excellent current handling in a rugged, low cost design.

Custom inductance values and turn ratios may be available upon request.

Part number ¹	Turns ratio	Primary (L1) inductance ² $\pm 20\%$ (μH)	DCR max (Ohms)		SRF typ ³ (kHz)	I_{sat} ⁴ (A)
			L1	L2		
LPR6235-253LML_	1 : 10	25	0.74	13.7	1300	1.3
LPR6235-253PML_	1 : 20	25	0.20	72	580	0.7
LPR6235-123QML_	1 : 50	12.5	0.085	200	360	0.9
LPR6235-752RML_	1 : 90	7.5	0.085	275	257	1.6
LPR6235-752SML_	1 : 100	7.5	0.085	316	230	1.6

1. When ordering, please specify **packaging** code:

LPR6235-253PMLC

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1500 parts per full reel).

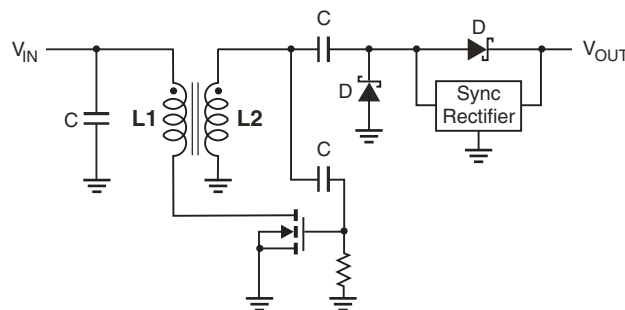
2. Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.

3. SRF measured using an Agilent/HP 4191A or equivalent.

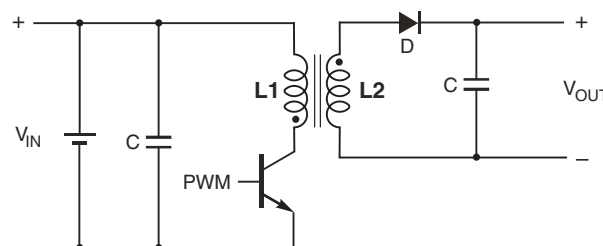
4. DC current applied to L1, at which the inductance drops 10% from its value without current.

5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Typical Step-Up Converter



Typical Flyback Converter



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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

NEW!

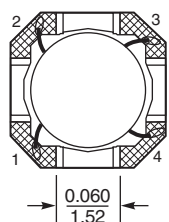
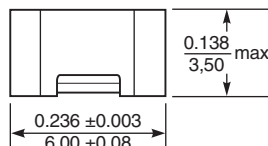
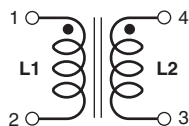
Dot indicates pin 1

C

XXXX

Dash number

0.236 ± 0.003
 6.00 ± 0.08



Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Laid Pattern

Technical drawing showing the layout of four square tiles (1, 2, 3, 4) arranged in a 2x2 grid. The tiles have chamfered corners. The overall width and height are 0.260 (2,60). The distance between the centers of adjacent tiles is 0.167 (1,67). The distance between the outer edges of adjacent tiles is 0.079 (0,79). The chamfer on each corner is 0.047 (0,047) wide and 45 degrees.

Recommended pick and place nozzle OD: 6.2 mm; ID: ≤ 3.1 mm

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