



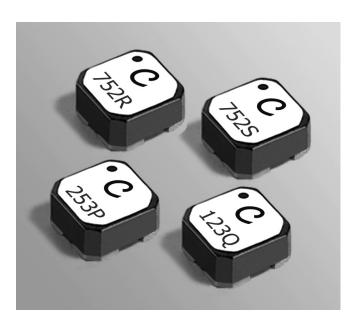






## Coupled Inductors – LPR6235 For Step-Up, Resonant & Flyback Applications





- Miniature shielded coupled inductors 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
- 300 Vrms, one minute isolation (hipot) between windings
- 3.5 mm high and 6 mm square
- Excellent coupling coefficient (k = 0.95); ideal for use in a variety of applications such as flyback transformers and step-up pulse transformers.
- · High Isat and low DCR ratings provide high efficiency and excellent current handling in a rugged, low cost design
- Custom inductance values and turn ratios are available upon request

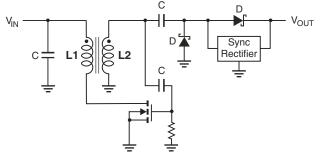
LPR6235-253LMR_ 1: 10	
LPR6235-123QMR_1:50 12.5 0.085 200 360 0. LPR6235-752RMR_1:90 7.5 0.085 285 257 1. LPR6235-752SMR 1:100 7.5 0.085 340 230 1.	

1. When ordering, please specify packaging code:

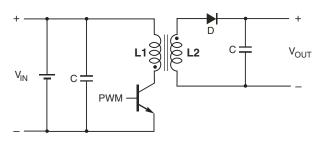
## LPR6235-253PMRC

- Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
  - **B** = In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.
  - **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 for -253LMR. All other values are measured at 10 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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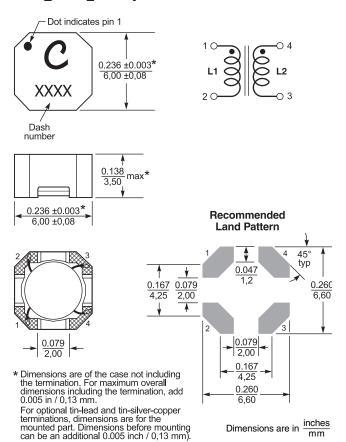
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice.
Please check web site for latest information.



## Step-Up/Flyback Transformers – LPR6235





Core material Ferrite

Weight 460 - 480 mg

Environmental RoHS compliant, halogen free

**Terminations** RoHS compliant matte tin over nickel over silver. Other terminations available at additional cost.

Ambient temperature -40°C to +85°C

**Storage temperature** Component: -40°C to +125°C.

Tape and reel packaging: -40°C to +80°C

Winding to winding isolation 300 Vrms

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at  $<30^{\circ}\text{C}$  / 85% relative humidity)

**Packaging** 350/7'' reel; 1500/13'' reel Plastic tape: 16 mm wide, 0.3 mm thick, 12 mm pocket spacing, 3.68 mm pocket depth **Recommended pick and place nozzle** OD: 6.2 mm; ID:  $\leq$  3.1 mm

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787\_PCB\_Washing.pdf.

