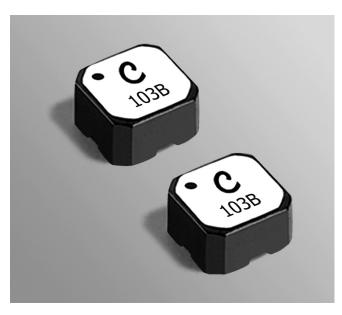


# Flyback Transformer – KA4947-AE



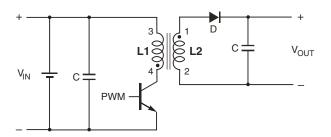


Part	Turns	Primary (L1) inductance2	DCR max		
number	ratio	±20% (μH)	L1	L2	<b>Ipk (A)</b> 3
KA4947-AE	2:1	400	1.10	0.875	0.23

1. When ordering, please specify packaging code:

#### KA4947-AEĊ

- Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 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 C instead.
  - D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 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. Peak primary current drawn at minimum input voltage
- 4. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



## **Typical Flyback Converter**



US +1-847-639-6400 sales@coilcraft.com UK +44-1236-730595 sales@coilcraft-europe.com Taiwan +886-2-2264 3646 sales@coilcraft.com.tw China +86-21-6218 8074 sales@coilcraft.com.cn Singapore + 65-6484 8412 sales@coilcraft.com.sg

## • Developed for the Cymbet CBC-EVAL-09 Universal Energy Harvester Evaluation Kit

- Excellent coupling coefficient (k = 0.95)
- Small footprint

#### Core material Ferrite

Environmental RoHS compliant, halogen free Weight 1.27 g

Terminations RoHS compliant silver-palladium-platinum-glass frit. Ambient temperature -40°C to +85°C with Ipk current

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

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

Winding to winding isolation 100 V

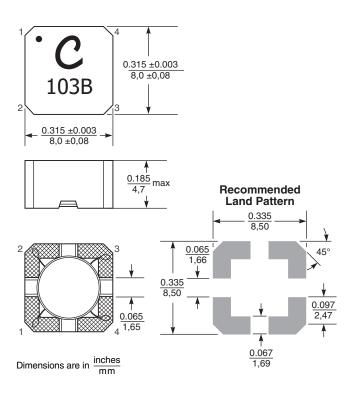
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Mean Time Between Failures (MTBF) / Failures in Time (FIT) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 250/7" reel; 1000/13" reel; Plastic tape: 16 mm wide,

0.28 mm thick, 12 mm pocket spacing, 4.83 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf



Document 890 Revised 08/09/13

© Coilcraft Inc. 2013

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.