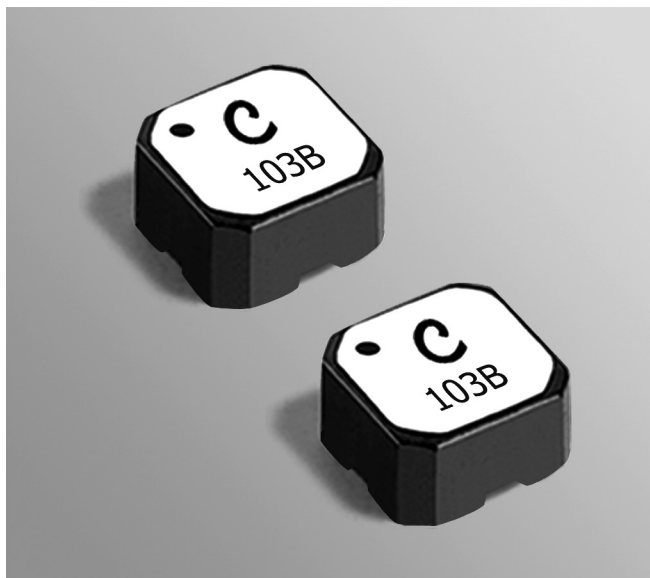


Flyback Transformer – KA4947-AE



- 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 $+85^{\circ}\text{C}$ with I_{pk} current

Storage temperature Component: -40°C to $+125^{\circ}\text{C}$.
Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$

Winding to winding isolation 100 V

Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles

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

Part number ₁	Turns ratio	Primary (L1) inductance ₂ $\pm 20\%$ (μH)	DCR max		I_{pk} (A) ₃
			L1	L2	
KA4947-AE_	2:1	400	1.10	0.875	0.23

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

KA4947-AEC

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.

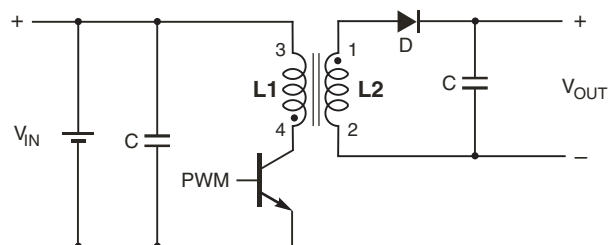
D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

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

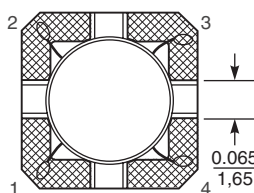
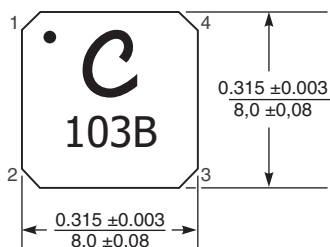
3. Peak primary current drawn at minimum input voltage

4. Electrical specifications at 25°C .

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



Typical Flyback Converter



Dimensions are in inches
mm

