



Coupled Inductor UA8164-BE



- Developed for Microchip Technology
- Designed for flyback topology in a haptic driver circuit
- Switching frequency: 300 kHz; Vin: 3.0 V; Vout: 230 V

Core material Ferrite

Weight 430 mg

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over phos bronze

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 200 Vrms applied for 2 seconds 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) 26,315,789 hours

Failures in Time (FIT) 38 per one billion hours

Packaging 250/7" reel; 1000/13" reel Plastic tape: 16 mm wide, 0.4 mm thick, 12 mm pocket spacing, 4.9 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

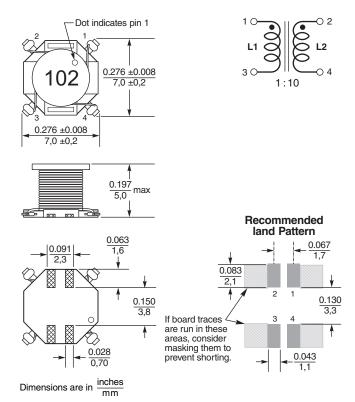
Part	Turns	Inductance ² ±20% (µH)		DCR max (Ohms)		Capacitance ³	Leakage inductance ⁴	Isat⁵	
number ¹	ratio	L1	L2	L1	L2	max (pF)	max (µH)	(A)	
UA8164-BE_	1:10	1.0	100	0.035	2.4	26.0	0.105	10.7	

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

UA8164-BEC

- Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - B = Less than full reel. 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 (1000 parts per
- 2. Inductance is measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
- 3. Capacitance is measured at 100 kHz, 0.1 Vrms.
- 4. Leakage inductance is for L1 and is measured at 100 kHz, 0.1 Vrms with L2 shorted.
- 5. 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.





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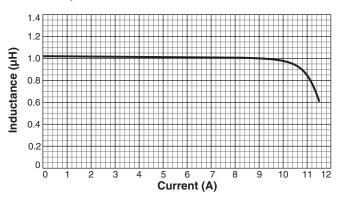
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice.
Please check web site for latest information.



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Primary L vs Current





Primary L vs Frequency

