**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.

### Tables

<table>
<thead>
<tr>
<th>Part number</th>
<th>Turns ratio</th>
<th>Inductance² ±20% (µH)</th>
<th>DCR max (Ohms)</th>
<th>Capacitance³ max (pF)</th>
<th>Leakage inductance⁴ max (µH)</th>
<th>Isat⁵ (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA8164-BE_</td>
<td>1 : 10</td>
<td>1.0</td>
<td>100</td>
<td>0.035</td>
<td>2.4</td>
<td>26.0</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:  
UA8164-BE_  
**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 D 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. 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.  
6. Electrical specifications at 25°C.  
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.
NEW!
Coupled Inductor – UA8164-BE

Primary L vs Current

![Primary L vs Current Graph]

Primary L vs Frequency

![Primary L vs Frequency Graph]

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.