**SAW Components**

**BAW Bluetooth/WLAN Filter**

Datasheet

<table>
<thead>
<tr>
<th>Series/type:</th>
<th>B8850</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering code:</td>
<td>B39242B8850P810</td>
</tr>
<tr>
<td>Date:</td>
<td>October 07, 2015</td>
</tr>
<tr>
<td>Version:</td>
<td>2.2</td>
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BAW Bluetooth/WLAN Filter

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Series/type: B8850
Ordering code: B39242B8850P810

Date: October 07, 2015
Version: 2.2
SAW Components B8850

BAW Bluetooth/WLAN Filter 2442.0 MHz

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Application
- Ultra low-loss BAW RF single filter for Bluetooth/WLAN with LTE Band 7 / Band 40 / Band 41 coexistence
- Usable passband 79.0 MHz
- Unbalanced to unbalanced operation
- Excellent insertion attenuation
- High out of band selectivity
- Filter impedance 50 Ω
- Good B40 attenuation
- Very low 2nd harmonic generation
- Excellent VSWR flatness across passband

Features
- Package size 1.1 x 0.9 mm²
- Package height 0.45 mm max
- RoHS compatible
- Approximate weight 0.0012 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitivity Level 3 (MSL 3)

Pin configuration
B8850 supports two I/O pinning configurations
1) For 2G only stand alone applications, recommend Pin 4 to PA, Pin 1 to ANT orientation for best harmonics performance.
2) For 2G+5G applications (with diplexer), filter supports either Pin 4 to PA, Pin 1 to ANT (or) Pin 4 to ANT, Pin 1 to PA configuration.

Pins 2,3,5 : To be grounded
Please read *cautions and warnings and important notes* at the end of this document.
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<tr>
<td>Ordering code</td>
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<td>Marking and package</td>
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<td>Packaging</td>
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<td>Date codes</td>
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<td>S-parameters</td>
<td>B8850_HDWB.s2p</td>
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<td>See file header for port/pin assignment table.</td>
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<td>Soldering profile</td>
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<td>RoHS compatible</td>
<td>RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (&quot;Directive&quot;) with due regard to the application of exemptions as per Annex III of the Directive in certain cases.</td>
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<tr>
<td>Moldability</td>
<td>Before using in overmolding environment, please contact your EPCOS sales office.</td>
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<td>Matching coils</td>
<td>See Inductor pdf-catalog <a href="http://www.tdk.co.jp/tefe02/coil.htm#aname1">http://www.tdk.co.jp/tefe02/coil.htm#aname1</a> and Data Library for circuit simulation <a href="http://www.tdk.co.jp/etvcl/index.htm">http://www.tdk.co.jp/etvcl/index.htm</a></td>
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For further information please contact your local EPCOS sales office or visit our webpage at [www.epcos.com](http://www.epcos.com).

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