885137
2.4GHz Wi-Fi / BT / LTE Coexistence BAW Diplexer

- **Product Features**
  - Diplexer formed with Wi-Fi bandpass and bandstop filters
  - High-performance BAW rejection in adjacent LTE B38 / B40 / B7 / B41
  - LowDrift™ BAW extended temp range: -40 to +95°C
  - Usable bandwidth of 79MHz (CH1-13)

- **Applications**
  - LTE / Wi-Fi gateways, data cards and routers
  - Wi-Fi antenna extractor circuits
  - High-power WLAN access points and small cells
  - 2.4GHz ISM applications
  - Wi-Fi set top box, gateways and routers

<table>
<thead>
<tr>
<th>Part</th>
<th>ANT – LTE (Bandstop) Insertion Loss</th>
<th>ANT – Wi-Fi (Bandpass) Insertion Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2370-2377.5MHz (dB)</td>
<td>2300-2370MHz (dB)</td>
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<td></td>
<td>Wi-Fi CH1-13 (dB)</td>
<td>Wi-Fi CH1-13 (dB)</td>
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<tr>
<td></td>
<td>2496-2510MHz (dB)</td>
<td>2496-2510MHz (dB)</td>
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<tr>
<td>885137</td>
<td>2.5</td>
<td>48</td>
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</table>

Ordering Information:
- SAP #   Description
  - 1124346  885137
  - 1124349  885137-EVB Evaluation Board Sample
885137
Performance Plots

Insertion Loss – Wide Band

Insertion Loss – Narrow Band

Band-reject
Band-pass

Wi-Fi
ANT
LTE

Topview

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BAW Solves High-Frequency Interference Problems

Coexistence Filtering

Wi-Fi BAW filters for indoor/outdoor access points, LTE gateways, and small cell base stations
Wi-Fi / LTE Coexistence Models

Filter Use Cases

Integrated

- **LTE B7,41,40,38**
- **2.4 GHz**
- **WLAN**
- **885137 diplexer**

Discrete

- **Wi-Fi Notch**
- **2.4 GHz**
- **LTE B7,41,40,38**
- **No filter impacts Rx sensitivity. Reduces throughput.**
- **Wi-Fi Bandpass**
- **2.4 GHz**
- **885008 885010**
- **885062 885071 885128**

Use **885062** for best rejection in B38/B40 and **885071** for best rejection in B7/B41
Coexistence Filter Portfolio
Indoor CPE, Outdoor AP and Small Cells

2.4GHz BPF
LTE Coexist

2.4GHz Notch / Bandstop

2.4GHz ANT Diplexer

Wi-Fi Extractor

Industry Smallest Package

Smaller

Integrate
Qorvo Connectivity Filters

Max Power Handling (dBm)

Qorvo’s Value Proposition

- 25% less temperature drift than FBAR
- Higher power handling than FBAR
- Hermetic packaging for best reliability and outdoor use
- Extended temperature range -40 to 95 ºC
- Smaller size, lower cost and better performance than ceramic mono-block
- Superior insertion loss, selectivity and power handling compared to SAW
- MTTF: >1M hours