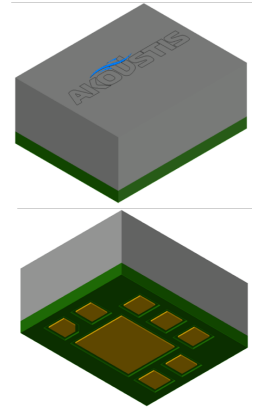


## 5.2 GHz WiFi Coexistence BAW Filter

## AKF-1252

### Description

Akoustis' AKF-1252 is a high performance, ultra-small passband BAW RF Filter for use in 5.2GHz WiFi applications covering U-NII 1 plus 2A bands. The AKF-1252 utilizes Akoustis' patented, single crystal BAW technology which provides leading RF filter performance. This BAW RF filter provides low insertion loss and meets the stringent rejection requirements enabling coexistence with U-NII 2C and 3. This device exhibits high-power handling capabilities necessary for demanding power requirements of the latest WiFi standards. The AKF-1252 uses standard laminate packaging and is compatible with high volume, lead-free SMT soldering processes.



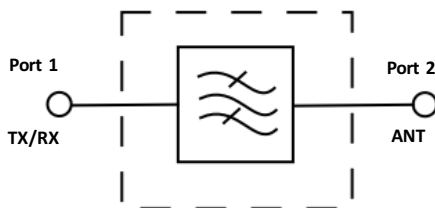
### Features

- Ultra small form factor 2mm x 2.5mm x 0.9mm
- Single ended Tx/Rx ports.
- High rejection enables coexistence with adjacent WiFi UNII bands
- High power rating, maximum +30dBm
- Low insertion loss passband filter
- Performance over -40 C to +85C
- RoHS compliant, Pb-free package

### Applications

- WiFi tri band routers, integrated cable modem
- WiFi tri band access points
- LTE/LAA small cells

### Functional Block Diagram



### Ordering Information

Part Number	Description
AKF-1252	Individual Part
AKF-1252EVB	Evaluation board
AKF-1252SR	(100) Sample Reel or Gel Pack
AKF-1252TR1	(1000) Tape & Reel
AKF-1252TR2	(2500) Tape & Reel