

## 5.6 GHz WiFi 6E Coexistence BAW Filter

**A10156**

### Description

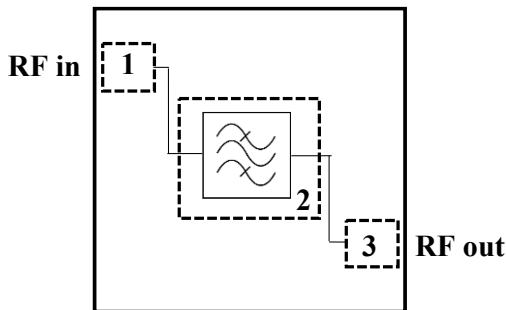
Akoustis’ A10156 is a high-performance, ultra-wide bandwidth BAW RF Filter for use in WiFi 6E applications covering U-NII-1 thru U-NII-4 bands. A10156 utilizes Akoustis’ patented, XBAW™ technology which provides leading RF filter performance. This BAW RF filter provides low insertion loss and meets the stringent rejection requirements enabling coexistence with U-NII-5 thru 8. This device exhibits high-power handling capabilities necessary for demanding power requirements of the latest WiFi 6E standards. A10156 is a fully integrated, 50Ω module using standard laminate packaging and is compatible with high volume, lead-free SMT soldering processes.

- Small form factor 3.5mm x 3.5mm x 1.41mm
- Single-ended Tx/Rx ports.
- Ultra-wide passband covering 725MHz
- High rejection enables coexistence with adjacent WiFi UNII bands
- High power rating, maximum +28dBm
- Low insertion loss bandpass filter
- Performance over -40 C to +85C
- RoHS compliant, Pb-free package

### Applications

- WiFi 6E tri band routers, integrated cable modem
- WiFi 6E tri band access points
- LTE/LAA small cells

### Functional Block Diagram



Pin #	Description
1	RF Input
2	Ground
3	RF Output

### Ordering Information

Part Number	Description
A10156EVB	Evaluation board
A10156SP	(5) Loose pcs
A10156SR	(100) Short Reel (7" Reel)
A10156TR1	(1000) Tape & Reel (7" Reel)
A10156TR2	(2500) Tape & Reel (13" Reel)

## PRODUCT SUMMARY A10156

### Product Compliance Information

#### ESD Sensitivity Ratings

Human Body Model (HBM) Test

Rating: TBD

Standard: ANSI/ESDA/JEDEC JS-001-2017

Charged Device Model (CDM)

Rating: TBD

Standard: ANSI/ESDA/JEDEC JS-002-2018

#### MSL Rating

TBD

#### RoHS

This part is compliant with the 2011/65EU RoHS directive on the restrictions of the use of certain hazardous substances in electrical and electronic equipment as amended by Directive (EU) 2015/863

### Contact Information

All contents specified in the datasheet are subject to change. Please contact Akoustis for the latest on our products and company information.

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