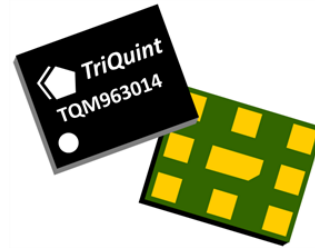


Applications

- CDMA/LTE handset, data card & mobile router applications using the extension PCS band (Band Class 14) / BC1 / B25

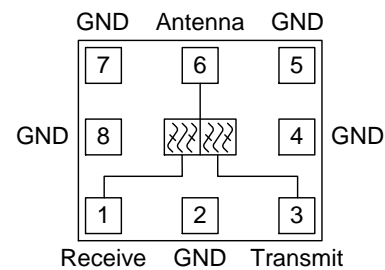


8 Pin 2.6 x 2.1 x 0.88 mm

Product Features

- Excellent Triple Beat Performance: -88 dBc
- Highly Selective BAW Duplexer Achieving Low Insertion Loss Over Full Bandwidth & Operating Conditions.
- Rx Isolation Of +50 dB Minimum & GPS Rejection Of >40 dB Eliminating The Need For A Transmit Filter
- Single-Ended (SE) 50 Ω Receive & Transmit Ports
- Performance -10 °C to +85 °C
- RoHS Compliant, Pb-Free Module Package

Functional Block Diagram



Top View

General Description

The TQM963014 is a high-performance Bulk Acoustic Wave (BAW) duplexer designed to meet the strict CDMA/LTE requirements for use in the PCS extension band, known as Band Class 14 (BC14), BC1, and B25.

TQM963014 is specifically designed to meet the high performance expectations of insertion loss, isolation and triple beat for CDMA systems over the extended bandwidth of BC14/BC1/B25 applications under all operating conditions. Due to the exceptional receive isolation & GPS rejection performance, no transmit SAW filter is required.

The TQM963014 uses common module packaging techniques to achieve the industry standard 2.5 x 2.0 x 0.9 mm footprint. The duplexer exhibits excellent power handling capabilities.

Pin Configuration

Pin #	Label
1	Receive
3	Transmit
6	Antenna
8	N/C (internal to GND)
2,4,5,7,9	Ground*

*See application section for details on optimal grounding.

Ordering Information

Part No.	Description
TQM963014	BC14/BC1/B25 BAW Duplexer
TQM963014-EVB	Evaluation Board

Standard T/R size = 2,500 pieces on a 7" reel.