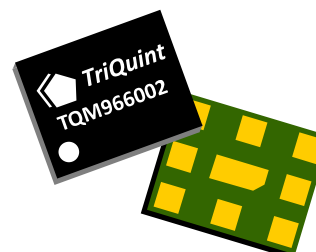


### Applications

- CDMA / UMTS Handsets
- Data Cards
- Mobile Routers
- PCS Band Class 1 and Band 2

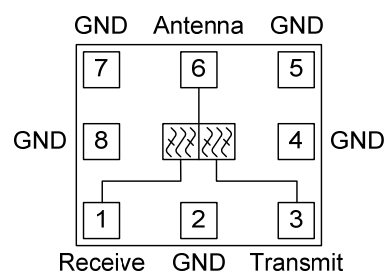


8 Pin 2.6 x 2.1 x 0.90 mm

### 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  $\Omega$  Receive & Transmit Ports
- Performance -30 to +85 °C
- RoHS Compliant, Pb-Free Module Package

### Functional Block Diagram



Top View

### General Description

The TQM966002 is a high-performance Bulk Acoustic Wave (BAW) duplexer designed to meet the strict CDMA/UMTS requirements for use in the PCS band, known as Band Class 1 (BC1), and B2.

TQM966002 is specifically designed to meet the high performance expectations of insertion loss, isolation and triple beat for CDMA systems over the bandwidth of BC1 / B2 applications under all operating conditions. Due to the exceptional receive isolation & GPS rejection performance, no transmit SAW filter is required. This duplexer exhibits excellent power handling capabilities

The TQM966002 uses common module packaging techniques to achieve the industry standard 2.6 x 2.1 x 0.9 mm footprint.

### Pin Configuration

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

\*See application section for details on optimal grounding.