DATA SHEET

Microminiature Ceramic Filters

Applications
- Electronic warfare
- Power amps
- Portable transceivers for both military and homeland security
- Radio communications

Features
- Bandpass, notch filters from VHF to SHF
- New ceramic technology reduces overall sizes up to 50%
- New 1.55 mm designs
- Ceramic foundry located in the USA
- Improved insertion loss with higher Q material, supported by internal R & D
- Quick turnaround on new designs (typically less than 6 weeks, with minimum NRE)
- Available in various frequencies

Skyworks Green™ products are compliant with all applicable legislation and are halogen-free. For additional information, refer to Skyworks Definition of Green™, document number SQ04–0074.

Description
Skyworks, through its wholly owned subsidiary, Trans-Tech, offers a family of ultra-small bandpass notch filters that are available in surface-mount technology (SMT) designs. Trans-Tech has the capability to design and manufacture filters from UHF up to 7.0 GHz with overall size reduction up to 50 percent. Trans-Tech offers rapid response times on all filter design requirements.

Our designs offer options for lighter weight, reduced-size subminiature ceramic filters to meet customer requirements.

Our ceramic filter solutions allow design flexibility beyond traditional ceramic styles. Figure 1 shows a diagram of the microminiature ceramic filter.

Figure 1. Diagram of the Microminiature Ceramic Filter
Dimension Options for the Microminiature Filters

Design options showing two different sets of dimensions are provided in Figures 2 and 3.

Figure 2. Dimensions for the Conventional Ceramic Filters

Figure 3. Dimensions for the Microminiature Ceramic Filters