Mini-Circuits®

PRODUCT RELEASE

Mini-Circuits Releases High Frequency LTCC Based Bandpass Filters

BFCN PRODUCT SERIES

LTCC Based Design

Mini-Circuits has designed and offered to the RF & Microwave market, Low Temperature Co-Fired Ceramic (LTCC) based components for over 10 years. Employing proprietary ceramic formulations, Mini-Circuits LTCC components combine low loss dielectric and highly conductive metallization in a multi-layer structure to realize high RF performance components. The three-dimensional structures enable Mini-Circuits to realize a variety of RF building blocks including inductors, capacitors, broadside and edge-coupled lines. Punched vias in pre-fired tape support a means to bridge conductors on multiple layers and complete the overall design.

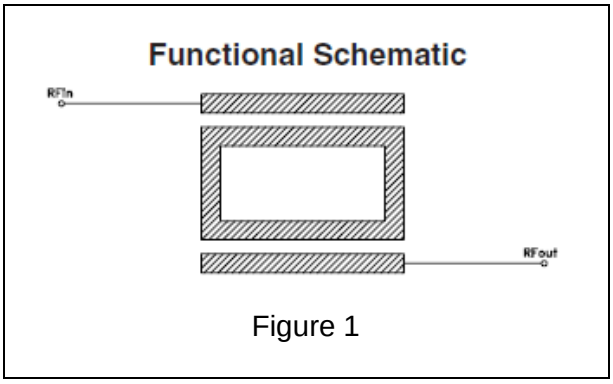

Figure 1

Band-Pass Filters in LTCC

Using combinations of both lumped-element and distributed elements in a three-dimensional ceramic structure, Mini-Circuits BFCN Product Line is now extended to 8750 MHz. This extension of the BFCN line to higher frequencies is accomplished in the new 1206 package format and offers outstanding performance features including:

- Low Passband Insertion Loss
- Outstanding ration of Size to Stop-Band Rejection.
- Designs with up to 5 sections
- DC isolated input and outputs.

Eight New Designs

The eight New designs cover frequency ranges from 7100 MHz to 8750 MHz in 2% to 5% bandwidths.

Model	Frequency Range
BFCN-7200+	7100 to 7300 MHz
BFCN-7350+	7150 to 7550 MHz
BFCN-7500+	7500 to 7900 MHz
BFCN-7700+	7500 to 7900 MHz
BFCN-7900+	7800 to 8100 MHz
BFCN-8000+	7900 to 8100 MHz
BFCN-8350+	8250 to 8450 MHz
BFCN-8450+	8350 to 8550 MHz