

Printed Filters Improve SWaP-C

Building cost efficiencies with an eye toward miniaturization

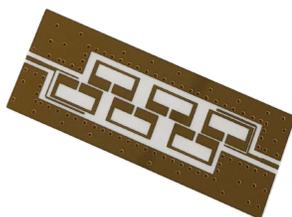
Printed filter manufacturing provides exciting and innovative possibilities for microwave frequency electronics, particularly for miniaturization, low-cost manufacturing, and repeatable performance. As part of our existing portfolio of high-performance RF components, Spectrum Control's printed filters are designed for today's demanding RF and microwave applications.

High Density System

Spectrum Control's printed filters are offered in a rugged, low-profile package, with a frequency range of 2 to 30 GHz with Lowpass, Bandpass, and Bandreject designs. These high-reliability filters expand Spectrum Control's reach in the growing market of microelectronics for printed filters, where printed components and circuits promise ease of use, cost-reductions, and greater manufacturing efficiencies. Spectrum Control's printed filters offer improved SWaP-C for our customers where product package height and unit-to-unit repeatability are primary concerns.

Printed filters are available in standalone or building blocks for IMAs to improve package density

Spectrum Control's printed filters are available as standalone or as part of our integrated microwave assembly (IMA) products. Our printed filters capability also can be leveraged into our filter-based IMAs to achieve reductions in mechanical package volumes, and diversify our portfolio with an additional tool for product optimization. This results in integrated assemblies with lower profiles and improved package densities.



Lowpass, Bandpass, and Bandreject filters are available



With Spectrum Control's experience in microelectronics design and testing, we provide a range of design and manufacturing solutions. Our printed filters products target electronic warfare, radar, UAV, guidance and navigation systems, communications and surveillance applications.

One of the advantages of printed filter manufacturing is the possibility of using it to implement miniaturization techniques. This is a growing trend that results in circuit design procedures that reduce the size of the electronics in a device by making them denser and, in some cases, partitioning them differently to reduce the overall number of components.

Features & Highlights

- Low Profile: <0.20" (<0.08" in some cases)
- Filter Function: Lowpass, Bandpass, and Bandreject
- Frequency Range: 2 to 30 GHz
- Bandpass Filter percent BW: 2-100%
- Complexity: up to 12 sections
- Operating temperature : -40c to +85c