

What's **NEW** at



Certified AS9100B

In an effort to be at the forefront of the aerospace market, Dielectric Laboratories, Inc. (DLI) has been certified to the AS9100B standard. DLI was informed in March 2009 that the Quality Management System in place was found to be in compliance with the standard and was officially certified to ISO 9001-2000 & AS9100B.

Custom Microstrip Filters

DLI has expanded its filter capability beyond microstrip bandpass designs. Notch filters, lowpass and highpass filters, ceramic cavity filters, and various other filter types are now available. All filters employ DLI's high-K ceramics which allow for great size reduction, and unbelievable temperature stability compared to alumina and PWB materials. Solder surface mount and chip and wire filters are all possible.

Notch Filter

- Greater than -20dB attenuation typical
- Low loss in passband regions [better than -1.5dB]
- Typical size: .25 x .196 x .02 inches
- Solder surface mount device

Typical Lowpass Filter

- Low loss in passband [better than -1.0dB]
- Greater than -40dB attenuation in stopband
- Typical size: 4 x .25 x .015 inches
- Chip and wire filter [mounted on PCB with epoxy or SMT]
- Designs possible from S to Ku band

Typical Highpass Filter

- Low loss in passband region [better than -2.0dB]
- Greater than -35dB attenuation in stopband
- Typical size: .3 x .2 x .015 inches
- Chip and wire filter [mounted to PCB with epoxy]
- Corner frequencies possible from 1GHz to 67GHz

SLC on tape and reel

DLI is pleased to offer tape and reel packaging solutions for a variety of our Single-layer capacitor case sizes. Utilizing the latest technology and equipment to provide our customers the highest quality products, our standard SMD tape and reel packaging meets or exceeds EIA standards.

"NA" material temperature compensating capacitors

DLI is now offering our proprietary NA dielectric formulation in a variety of MLC case sizes. With its negative temperature coefficient of capacitance (N30+/-15ppm/C), this high-Q porcelain dielectric is ideal for temperature compensating situations. NA is offered as a drop-in replacement for most AH/CF part numbers.

Extreme leach resistant terminations

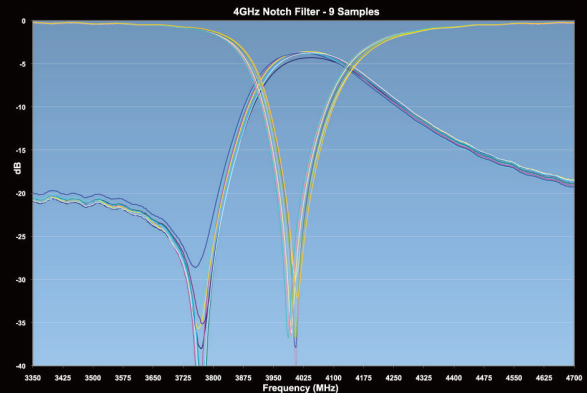
When design engineers told us they'd like a termination that would allow them the freedom to use harsh solder profiles and multiple reworks, we listened! DLI has qualified enhanced versions of its RoHS compliant terminations designed to handle both the rigors of the test bench and the production floor with ease. The enhanced terminations are available in both standard (term code: E) and non-magnetic (term code: H) finishes. Please contact our Sales Representatives for more details.

High Voltage 1111 case size

DLI is pleased to introduce the new C18 series of enhanced voltage high-Q porcelain capacitors. With voltage ratings up to 2000V, the C18 is designed to be the most robust "1111" high-Q capacitor available today. The C18 is available in both our ultra stable (0±15ppm/C) CF and temperature compensating (+90ppm/C) AH dielectrics, and is form-factor compatible with our existing line of C17 "1111" capacitors.

Tuning Rod Kits

DLI designed tuning rods to utilize our C11 or C17 capacitors of a specified value attached to High-Q insulating holder to find the optimum capacitor for a particular circuit or application without soldering capacitors.



L1/L2 GPS Notch Filters

- Greater than -20dB attenuation typical
- Low loss in passband regions [better than -1.5dB]
- Typical size: .25 x .25 x .075 inches
- Includes integral cover
- Solder surface mount device

