



# Network Sciences

## Company Description

Network sciences was originally founded in 1970 under the name "Network Sciences, Inc." to design, develop and manufacture discrete crystal filters for the Citizens' Band (CB) mobile radio and amateur radio industries. In 1985 the current management team acquired and renamed the company "Network Sciences", and has effectively grown the company's product line to include a wide variety of discrete crystal filters, LC filters, Monolithic crystal filters, and crystal-based frequency discriminators. With over 1,000 proven filter designs in its engineering library, Network sciences has become known to provide unique solutions to unique applications in the design and manufacture of high quality standard and custom-engineered rf filters covering the frequency range from 1 KHz to 2.0 Ghz.

Network Sciences manufactures application-specific (custom-engineered) crystal and LC rf filters and frequency discriminators for commercial, military communications, and instrumentation applications. The company offers an extensive line of cost-effective filters and discriminators currently in production, plus the design and manufacturing capabilities to develop new products to meet its customer's unique filter requirements. The filter products offered by Network Sciences are available in a wide variety of packages, which include surface mount, flatpack PCB packages, and connectorized enclosures.

## Markets Served

Filters supplied by Network Sciences are used in a wide array of U.S. And international governmental agencies, military, commercial and high quality consumer applications such as radar, airborne reconnaissance systems, communications, jamming systems, cellular and PCS base stations, GPS survey instruments, microwave digital radios, test instrumentation, and miscellaneous wireless communications systems.

## Technologies & Major Products

Network Sciences manufactures a complete product line of standard and custom-engineered crystal and LC filters, and crystal discriminators. Filters of all types (polynomial, general synthesis, image parameter, etc), delay and amplitude equalized, phase matched, and all package configurations.

Products from Network Sciences include:

- Crystal filters in all polynomials and package configurations from 100 KHz to 300 Mhz with fractional bandwidth of 0.002% to 3%.
- LC filters in all polynomials and enclosure configuration.

From 1 KHz to 2.0 Ghz with fractional band widths of 2% to 100+%.

- Low-cost monolithic crystal filters in a complete range of frequencies from 10 Mhz to 110 Mhz, with fractional bandwidths of 0.005% to 0.3%. MCF are available in leaded or in surface-mount ceramic leadless type packages:
- Crystal-based frequency discriminators in all package configurations from 5 Mhz to 80 Mhz with up to 1% peak-to-peak bandwidths, distortion to less than 1% and video bandwidths to 50 Mhz.

## Technical Services

Network Sciences offers complete in-house capabilities for the design and test of its filter and frequency discriminator products. These capabilities were put in place to benefit the company's customers as follows:

- Network Sciences' engineering team is experienced in developing the most cost-effective solutions for its customer's specific applications.
- Strict in-house control of design procedures, material selections, manufacturing processes and test procedures provide Network Sciences' customers with products of the highest quality and reliability.
- In-house manufacture of crystals, coils, printed circuits, and packages provide precise control of these critical components for Network Sciences filters and discriminators.
- The company's total in-house capability enables Network Sciences to reduce response and delivery times for their customers' prototype and production needs.

Network Sciences' success is based on the company's experienced and dedicated personnel. All key personnel at Network Sciences have at least ten years' experience in the design and manufacture of crystal filters, LC filters and frequency discriminators. All new requirements are computer modeled, and cost-driving specifications are high-lighted for Network Sciences' customers. The company personnel employ every effort to optimize product value per dollar, and to earn customer trust to become a long-term valued supplier.

## Facilities

Network Sciences is housed in a modern, single story, 8000 square-foot facility, located 20 minutes for Phoenix Sky Harbor International Airport in Phoenix, Arizona. Network Sciences' CAGE CODE is 1HP10. The company's quality assurance standards meet or exceed the requirements of IPC-A-610 REV' D, and its workmanship procedures meet or exceed the requirement of IPC J-STD-001 D. Plus AS9100C (pending).

## Network Sciences

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