



Crystals, Oscillators, Filters and RF Solutions



Communication and Navigation

Mission Proven Crystals, Oscillators, Filters and RF Solutions for **60 years**

Mtron is a proven market leader for surface mount filter products and tight stability, low phase noise and low aging crystals and oscillators. As a fully integrated design and manufacturing organization, Mtron has an established team and track record to meet ground, shipboard and airborne communication and navigation requirements.

Partners:

- **Raytheon Technologies Corp.**
- **Honeywell International Inc.**
- **L3Harris Technologies Inc.**
- **Northrop Grumman Corp.**
- **Collins Aerospace**
- **CMC Electronics**
- **Thales Group**
- **BAE Systems**
- **Airbus Group**
- **Leonardo**

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Certificate of Registration

QUALITY MANAGEMENT SYSTEM - AS9100D AND ISO 9001:2015

This is to certify that:

M-Tron Industries Inc.
1703 E. Highway 50
Yankton
South Dakota
57078
USA

FM 579007

In which complies with the requirements of AS9100D (technically equivalent to EN9100:2018 and IATF 16949:2016) and ISO 9001:2015 and is assessed in accordance with AS9104/1

Quartz crystals, oscillators and custom built thick film hybrids.
artz crystals and oscillators for resale.



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Certificate of Registration

QUALITY MANAGEMENT SYSTEM - AS9100D AND ISO 9001:2015

This is to certify that:

MtronPTI
2525 Shader Road
Orlando
Florida
32804
USA

Holds Certificate No:

FM 690357

and operates a Quality Management System which complies with the requirements of AS9100D (technically equivalent to EN9100:2018 and IATF 16949:2016) and ISO 9001:2015 and is assessed in accordance with AS9104/1 for the following scope:

Designer and manufacturer of radio frequency components and assemblies used in defense, aerospace, avionics, instrumentation, telecommunications, industrial, medical and space applications.

FM 579007

In which complies with the requirements of AS9100D (technically equivalent to EN9100:2018 and IATF 16949:2016) and ISO 9001:2015 and is assessed in accordance with AS9104/1

Quartz crystals, oscillators and custom built thick film hybrids.
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Carlos Pitman
Carlos Pitman, Managing Director, Americas

Issue Date: 2024-01-13
Expiry Date: 2027-01-12

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For and on behalf of BSI:

Carlos Pitman
Carlos Pitman, Chief Operating Officer, Assurance – Americas

Issue Date: 2022-06-20

Expiry Date: 2025-06-19

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To be read in conjunction with the scope above or the attached appendix.

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A Member of the BSI Group of Companies.



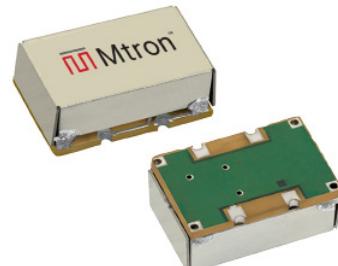
Our Communication and Navigation Advantage

Mtron offers standard and custom products that meet flexibility, performance and reliability requirements for all communication and navigation needs.



Capabilities:

- In-house crystal processing
- Ultra lightweight and compact RF Solutions
- Wash proof surface mount LC filters
- Low intermodulation performance
- Very low insertion loss
- Low phase noise, tight stability and low aging TCXOs
- High channel to channel isolation



Product Lines:

- Crystal filters to 200 MHz
- LC filters to 6 GHz
- Cavity / Waveguide filters to 30 GHz
- Planar Filter from 1.5 GHz to 20 GHz
- N-plexers, switched filter banks
- Low phase noise and small package OCXOs
- VCXOs and TCXOs to 1.4 GHz
- Tunable Filters
- LNAs
- SSPAs
- RF Solutions



Our expert team of Engineers, Program Managers, Assemblers and Testers know the demands of communication and navigation applications and the discipline required to deliver high performance and highly reliable products.

In House Testing

- **Fine Leak Testing - Helium per MIL-STD-202, Method 112**
- **Gross Leak Testing per MIL-STD-202, Method 112**
- **Random Vibration per MIL-STD-202, Method 214A**
- **Sinusoidal Vibration per MIL-STD-202, Method 201 and 204**
- **Mechanical Shock per MIL-STD-202, Method 213**
- **Thermal Shock per MIL-STD-202, Method 107**
- **Terminal Strength per MIL-STD-202, Method 211**
- **PIND (Particle Impact Noise Detection) per MIL-STD-202, Method 217**
- **Other Miscellaneous Testing including: Life, Immersion, Humidity, Barometric Pressure, and Solderability**
- **Dielectric Withstanding Voltage and Insulation Resistance**

Production Capabilities

- Phase and Amplitude Matched Filter Sets
- Automated Intermodulation Testing
- Lead Attached 5x7mm package
- In house Crystal Processing
- World-class FOD Control
- Laser Weld

Workmanship Standards

- In-house J-STD-001 Certified Trainer
- J-STD-001 Class 2 and 3

Full DC and RF Testing

- RF Testing 100 kHz to 40 GHz
- In-house Power Testing



WE KNOW COMMUNICATION AND NAVIGATION