



Crystals, Oscillators, Filters and RF Solutions



Instrumentation and
Industrial Applications

Mission Proven Crystals, Oscillators, Filters and RF Solutions for Over 60 Years

Mtron is a proven market leader for 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 instrumentation and industrial requirements.

Partners:

- Keysight Technologies
- National Instruments
- GoWell International
- Vega Grieshaber KG
- Viavi Solutions Inc.
- NCR Corporation
- Landis + Gyr
- Siemens
- Resideo
- Anritsu

bsi.

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



bsi.

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 prEN9100:2016 and JISQ 9100:2016) and ISO 9001:2015 and is assessed in accordance with AS9104/1 for the following scope:

Worldwide designer and manufacturer of custom frequency control products including filters, crystal oscillators and precision resonators used in defense and commercial electronic applications in aerospace, telecommunications, wireless communications, medical and space.

For and on behalf of BSI:

Carlos Pitanga
Carlos Pitanga, Chief Operating Officer - Americas

Original Registration Date: 2013-06-20
Reissue Date: 2019-06-20

Issue Date: 2019-06-20
Expiry Date: 2022-06-19

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This certificate remains the property of BSI and shall be returned immediately upon request.
An electronic certificate can be authenticated online. Printed copies can be validated at www.bsigroup.com/ClientDirectory
To be read in conjunction with the scope above or the attached appendix.

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP.
BSI Assurance UK Limited, registered in England under number 7805322 at 389 Chiswick High Road, London W9 4AL, UK.
Managed by: BSI Group America Inc., 12905 Montague Drive, Suite 800, Herndon, VA 20170-6007 USA +1 703 437 9000
A Member of the BSI Group of Companies.

with the requirements of AS9100D (technically equivalent to prEN9100:2016 and JISQ 9100:2016) and is assessed in accordance with AS9104/1

oscillators and custom built thick film hybrids, oscillators for resale.

Artemis

System Certification and Compliance

Issue Date: 2018-01-13
Expiry Date: 2021-01-12

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request.
at www.bsigroup.com/ClientDirectory

on PMS BPS
Savoy High Road, London SW14 4AL, UK
VA 20170-6007 USA +1 703 437 9000

Our Instrumentation and Industrial Applications Advantage

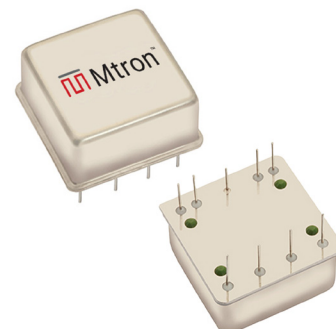
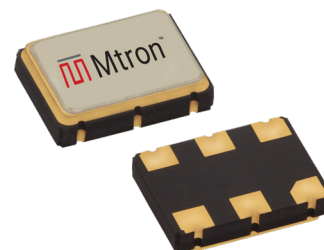
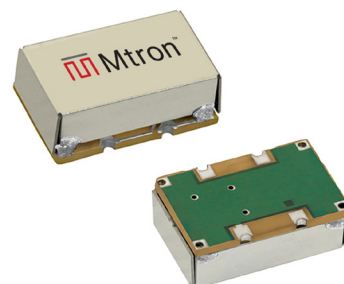
Mtron offers standard and custom products that meet flexibility, performance and reliability requirements for all instrumentation and industrial applications needs.

Capabilities:

- Ultra-low phase noise
- Tight stability OCXO with an integrated PLL in a small package
- Wide operating temperature, +200° C for downhole applications
- Wash proof surface mount LC filters
- Low intermodulation performance
- Very low insertion loss
- Low phase noise, tight stability and low aging TCXOs
- Support all standard output types, voltage, and packages

Product Lines:

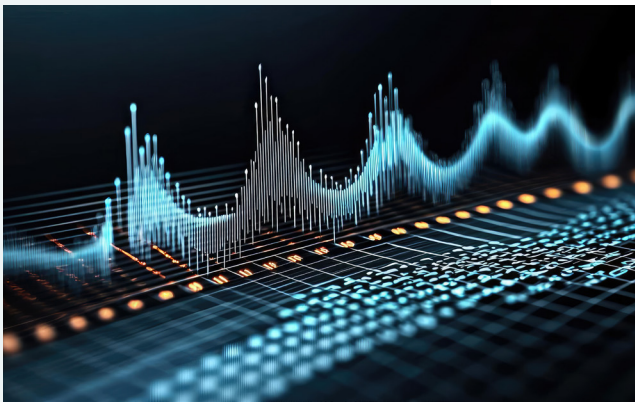
- Tight stability, low phase noise and low G-sensitivity OCXOs up to 4 GHz
- PLL integrated oscillators
- LC filters to 6 GHz
- Cavity / Waveguide filters to 30 GHz
- Planar Filter from 1.5 GHz to 20 GHz
- Low phase noise VCXO
- TCXOs up to 1.4GHz
- Tunable Filters
- LNAs
- SSPAs
- RF Solutions



Our expert team of Engineers, Assemblers and Testers know the demands of instrumentation and industrial 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 20
- 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, Barometric Pressure, Humidity, 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 INSTRUMENTATION AND INDUSTRIAL APPLICATIONS

mtron.com | sales@mtron.com | phone: 407.298.2000 | 2525 Shader Rd. Orlando, FL 32804