Mtron™

Crystals, Oscillators, Filters and RF Solutions

# Satellite Communications

## Mission Proven Crystals, Oscillators, Filters and RF Solutions for

# Over 60 Years

Mtron is a proven market leader for highly selective filter products and tight stability, low phase noise and low g-sensitivity 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 satellite communications component and subsystem requirments.

## Partners:

- **Northrop Grumman Corporation**
- **Hughes Network Systems LLC**
- **Honeywell International Inc.**
- **L3Harris Technologies Inc.**
- **Gilat Satellite Networks**
- **Cubic Corporation**
- **AvL Technologies**
- **Thales Group**
- **Viasat**


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 EN9100:2018 and JISQ 9100:2016) 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.

For and on behalf of BSI:

Carlos Pitanga, Chief Operating Officer Assurance – Americas

Original Registration Date: 2013-06-20
Reissue Date: 2022-06-20
Issue Date: 2022-06-20
Expiry Date: 2025-06-19

Page: 1 of 1

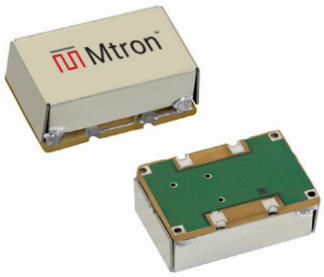
...making excellence a habit.™

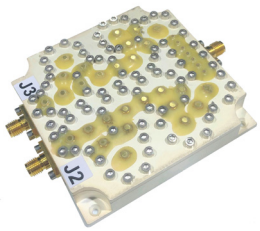
# Satellite Communications
## Crystals, Oscillators, Filters and RF Solutions

Mtron™

# Our Satellite Communications Advantage

Supporting military and commercial satellite communication applications, Mtron offers standard and custom products that meet size, weight, performance, and reliability requirements.



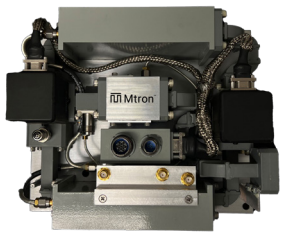



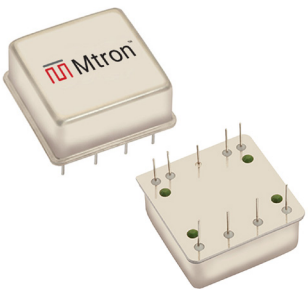

## Capabilities:

- **Ultra-lightweight and compact RF Solutions**
- **High power handling RF filters**
- **Corona discharge analysis / testing**
- **High channel to channel isolation**
- **Very low insertion loss**
- **Ultra-low phase noise and tight stability in a small package**
- **e-Vibe™ compensation oscillator capability, low G-sensitivity**


## 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**
- **N-plexers, switched filter banks**
- **Low G-sensitivity TCXO**
- **Low phase noise VCXO**
- **Tunable Filters**
- **LNAs**
- **SSPAs**
- **RF Solutions**




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

# Satellite Communications
## Crystals, Oscillators, Filters and RF Solutions

Mtron™

Our expert team of Engineers, Program Managers, Assemblers and Testers know the demands of Satellite Communications 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**
- **Corona Discharge Analysis/Testing**

## 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**
- **Corona Discharge Analysis/Testing**

**WE KNOW SATELLITE COMMUNICATIONS**

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