



Crystals, Oscillators, Filters and RF Solutions



Satellite Communications

Mission Proven Crystals, Oscillators, Filters and RF Solutions for 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 requirements.

Partners:

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



Our Satellite Communications Advantage

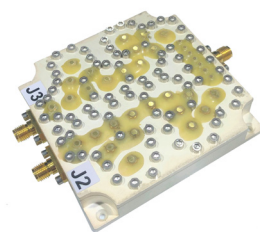
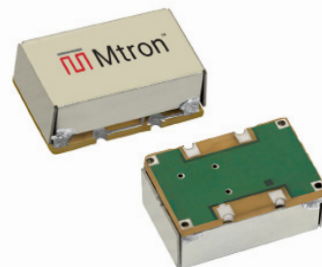
Supporting military and commercial satellite communication applications, Mtron offers standard and custom products that meet size, weight, performance, and reliability requirements.

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



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

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