III Mtron™

Crystals, Oscillators, Filters and RF Solutions



Guided Weapons



Mission Proven Crystals, Oscillators, Filters and RF Solutions for

Over 60 Years

Mtron is a proven market leader for phase and amplitude matched 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 guided weapons requirements.



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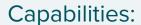
Partners:

- Raytheon Technologies Corp.
- Northrop Grumman Corp.
- Lockheed Martin Corp.
- Thales Group
- BAE Systems
- **MBDA**



Our Guided Weapons Advantage

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



- Phase and amplitude matched filters
- · Wide temperature, low phase noise oscillators
- Lead attach capability for 5 x 7mm ceramic package
- Ultra lightweight and compact RF Solutions
- Low intermodulation performance
- Very low insertion loss
- · Low phase noise, tight stability and low aging TCXOs

Product Lines:

- Crystal filters to 200 MHz
- LC filters to 6 GHz
- Cavity/ Waveguide filters to 30 GHz
- Planar Filters from 1.5 GHz to 20 GHz
- · N-plexers and switched filter banks
- Precision resonators to 200 MHz
- 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 Guided Weapons 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

