П Mtron[™]

Crystals, Filters and RF Solutions



Space



Mission Proven Crystals, Filters and RF Solutions for

Over 60 Years

Mtron has over 150 design wins on satellite platforms and manned spacecraft. Engineering Design Units to Flight hardware, Mtron has a proven team and track record to meet your demanding space requirments.



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Partners:

- L3Harris Technologies Inc.
- Blue Canyon Technologies
- Northrop Grumman Corp.
- General Dynamics Corp.
- Lockheed Martin Corp.
- Collins Aerospace
- Rocket Lab
- Boeing Co.
- MDA Corp.
- NEC Corp.
- ISRO



Our Space Advantage

Supporting military, commercial, and scientific space applications, Mtron delivers qualified RF Solutions, crystals, and filters which fully meet the reliability and performance demands of space.



Capabilities:

- In-house crystal processing
- Ultra lightweight and compact RF Solutions
- Spark3D design analysis
- High power handling
- · High channel to channel isolation
- Very low insertion loss
- Multipaction testing over temperature





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
- Precision resonators to 200 MHz
- RF Solutions







Our expert team of Engineers, Program Managers, Assemblers and Testers know the demands of Space and the discipline required.

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
- Multipaction Testing



Production Capabilities

- Dedicated Clean Room
- World-class FOD Control
- In-house Crystal Processing
- Internal Quartz Sweeping
- Laser Weld

Workmanship Standards

- In-house J-STD-001 Certified Trainer
- J-STD-001 Class 3 with Space Addendum

Full DC and RF Testing

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

