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RF Solutions



RF Solutions



Mission Proven Crystals, Oscillators, Filters and RF Solutions for

60 years

Mtron brings over 60 years of expert high frequency design and manufacturing experience to our RF Solutions product lines. Designed for extreme Aerospace, Defense and Avionics as well as Commercial requirements, Mtron produces world-class RF Solutions spanning frequencies from 10MHz to 50GHz at our AS9100D operations.

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Applications:

- Transceivers for Data-links and Smart Munitions
- Transmit and Receive Modules
- Switched Filter Banks
- Frequency Converters
- Wide Band Receivers
- Clock Distribution Assemblies

RF Solutions



Mtron's RF Solutions design and development modeling uses the same circuit, electromagnetic, mechanical, thermal, and stress analysis tools as our customers. This allows Mtron's RF Solutions design synthesis to be effortlessly integrated into the customer's system synthesis at early stages in the development process. This design collaboration essentially makes Mtron's design team an extension of the customer's design team and allows our customer's resources to focus on their areas of expertise. The result of having Mtron focus on the design concept, prototype development, and transition to full rate production is a shortened design cycle and a faster time to market.

Switch Filter Bank



Ku Band Tx/Rx Solution



PLL Integrated References



Clock Distribution Assembly



C Band Diplexer Splitter Assembly



Ku Band CDL Tx/Rx Solution SSPA and LNA



Space Level RF Switch **Assembly**



Ku Band CDL Tx/Rx Solution Diplexer, SSPA and LNA



Technology Partnering



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RF Solutions



Mtron's advanced design and engineering capabilities, coupled with multi-disciplined vertical integrations, enable us to provide complex assemblies that seamlessly integrate into sophisticated technology platforms.

Features

- Low Insertion loss
- High isolation
- High power
- Low system noise figure
- · Fast switching time
- Integrated Control Electronics
- Designed for Harsh Environment
- Excellent SWaP-C
- SSPAs

- Low phase noise
- Temperature Stability
- LNAs

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
- X-ray fluorescence (XRF) Analysis

Full DC and RF Testing

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

Production Capabilities

- 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

