# **Minimal** Minimal Min

Crystals, Oscillators, Filters and RF Solutions



Planar Filters



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

# **Over 60 Years**

Mtron brings 60 years of expert high frequency design and manufacturing experience to our Custom Planar Filter product line. Employing our AS9100D operations, Mtron is designing and manufacturing Planar Filters from 1.5 GHz to 20 GHz that support the Aerospace, Defense, and Avionics markets.

#### **Applications:**

- Radar
- Munitions
- EW/SIGINT
- SATCOM
- Communication
- Avionics



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Certificate of Registration

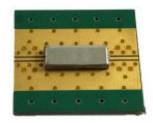
QUALITY MANAGEMENT SYSTEM - AS9100D AND ISO 9001:2015

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### Our Planar Filter Advantage

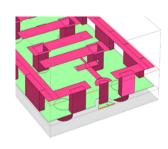
Mtron has launched the design and manufacture of thin film planar filters utilizing interdigital, combline, hairpin, edge-coupled, and end-coupled topologies. The low loss and high dielectric substrates used in the manufacturing process enable a small surface mount footprint and a low profile of less than 0.080 inches high. Customization of these filters for specific applications is possible due to the flexible nature of the design and manufacturing process.

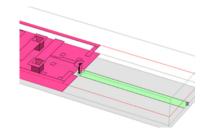




#### Features:

- Excellent SWaP-C
- Substrate Materials: Quartz, Alumina, Titanate based high dielectric (Er>30)
- Low insertion loss (<1.5 dB)</li>
- High and low side rejection (>60 dB)
- Typical package size: less than 0.5" L x 0.2" W x 0.08" H
- Bandwidth 2 to 50%
- Thin film gold 5 microns nominal
- · RF Shielded silver or nickel plating
- · Special conformal coating
- Excellent temperature stability <5ppm/°C</li>
- Standard and extended operating temperatures available
- Designed for harsh environments
- 100% testing before shipping







## Planar Filters for High Performance Applications

Mtron has a team of experts who understand and are committed to developing Planar Filter products for applications that require high performance and high reliability. This includes rigorous testing and quality control procedures throughout the design and manufacturing process.

