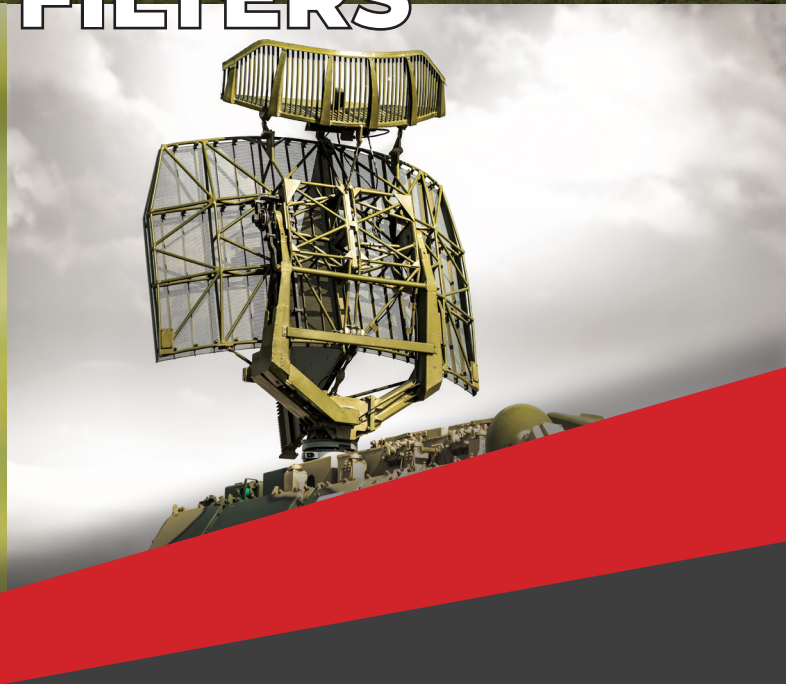


MtronPTI[®]
Your Destination for
RF Components
and Solutions



PLANAR FILTERS



**CRYSTALS, OSCILLATORS, FILTERS
& INTEGRATED ASSEMBLIES**

**SHORT FORM
CATALOG**

A REPUTATION OF RELIABILITY AND PERFORMANCE

PROVEN PLANAR FILTER TECHNOLOGY

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

MARKETS:

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

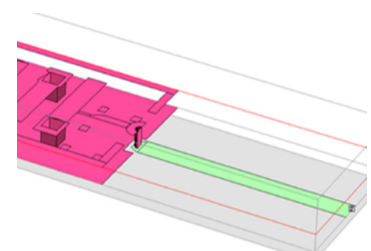
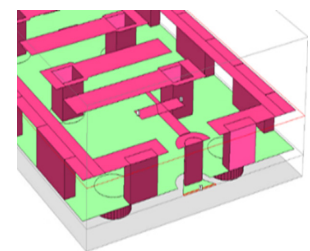
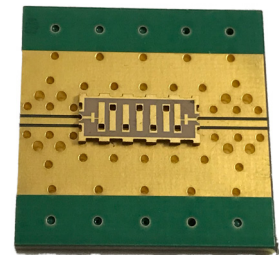
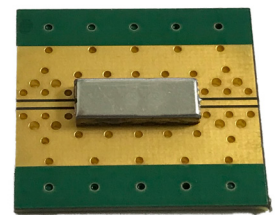


OUR PLANAR FILTER ADVANTAGE

MtronPTI 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 ($\epsilon_r > 30$)
- Low insertion loss ($< 1.5\text{dB}$)
- High and low side rejection ($> 60\text{ dB}$)
- 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 $< 5\text{ppm}/^\circ\text{C}$
- Standard and extended operating temperatures available
- Designed for harsh environments
- 100% testing before shipping



PLANAR FILTERS FOR HIGH PERFORMANCE APPLICATIONS



MtronPTI 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.

APPLICATIONS:

- Transmit and Receive Modules
- Signal Intelligence
- Frequency Converters
- Wide Band Receivers
- Switched Filter Banks

IN HOUSE QUALIFICATION TESTING:

- 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

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