

Space Qualified Filter Product

AS 9100
Certified

ISO 9001
Certified



BY **Q MICROWAVE, INC**



- **Frequency Ranges from 20 MHz to 20+ GHz**
- **Lumped Element, Comblane Cavity, & Ceramic Resonator Designs**
 - Qualified Lumped Element Designs – 885 MHz to 7 GHz
 - Qualified Comblane Cavity Designs – 7 GHz to 17 GHz
- **Custom Packaging Solutions**
 - Hermetic & Non-Hermetic Packaging
 - Formed Lead, Micro-Strip, Surface Mount, & SMA / SMP Connector Interfaces
- **Specialized Testing Capability**
 - Phase & Amplitude Matching, Phase Noise, High Power
- **Dedicated Program Management**
- **Segregated Hi-Rel Production Lab**
- **J-STD-001E S-Level Compliant Workmanship**
- **Reliability IAW MIL-HDBK-217F**
- **Full Environmental Screening**
IAW MIL-PRF-38534 / MIL-STD-883



Q Microwave, Inc.
619-258-7322

www.qmicrowave.com

AS 9100C & ISO-9001:2008 Certified

- Documented Quality System & Manual
- Formal Failure Analysis, & Closed Loop Corrective Action Systems
- Ongoing Integrated Training Programs (J-STD-001 Certified)

Micro-Strip / Formed Lead / Surface Mount Interfaces

Q, Impedance, and Phase & Amplitude Matching

Tuning for Improved Filter Performance *within* Customer Circuit,

= “Drop-in”, Integration – Ready Product

Hermetic & Non-Hermetic Packaging

- Solder (Indium / Sn62 / Sn96) Sealing
- Seam Sealing
- Laser Sealing
- Fine & Gross Seal Testing – IAW MIL-STD-202, Method 112, Conditions C & D

Drawing from Established & Existing Expertise (50+ Years RF Design Experience), Adding those Features Unique to Hi-Rel Applications

- Processes Identification, Control, & Approval
- Complete Parts, Materials, & Documentation Traceability
- XRF Screening for Prohibited Materials (Sn / Cd / Zn)
- Qualification Testing IAW MIL-PRF-38534, Class K (Tailored to Passive Devices)
- Deliverable Data Requirements & Long Term Records Storage

Dedicated Program Management, 30+ Years Experience in Hi-Rel / Space-Borne Applications

Parts & Materials Control

- All Parts & Materials Traceable to Manufacturer Documentation
- All Non-Metallic Materials Selected from NASA Preferred Low-Outgassing Database
- Single Layer Parallel Plate Capacitive Substrates Standardized & Procured to MIL-PRF -38534, C.3.7 Tailored