

Cryogenic Microwave Filter



FEATURES

- Classic metal-powder cryogenic RF filter design used for decades in laboratories worldwide
- Designed for heavy microwave noise filtering in sensitive experiments
 - Superconducting qubits
 - Semiconductor / mesoscopic devices
 - Quantum Hall experiments
 - Single-electron / single-photon measurements
 - Ultra-low-noise transport measurements
- Fully compatible with dilution refrigerators and cryogenic vacuum environments
- Stable performance from 300 K down to <10 mK
- Ultra-high microwave attenuation
- Excellent thermalization of all signal lines. Internal conductors are fully potted in thermally conductive metal-loaded epoxy (no loose powder), ensuring fast thermalization at the mixing chamber and mechanical stability under thermal and magnetic field cycling
- 24 lines (12 twisted pairs) via 25-pin Micro-D connectors
- Housing: C1020 oxygen-free copper (99.96%) with gold plating
- Size: 90 × 50 × 14 mm (compact 70 × 50 × 14 mm)
- 8 × M3 mounting holes; 40 mm × 20 mm hole pattern (center-to-center)
- Custom line count / connectors / materials available upon request

ELECTRICAL SPECIFICATIONS

- DC resistance per line: < 25 Ω
- Capacitance < 50 pF
- Bandwidth: DC to ~1 MHz

