

Through-hole Filters High Frequency PCB Filters

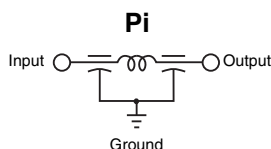
API Technologies' Spectrum Control line of high frequency PCB filter provides EMI filtering to protect low power digital circuits, while meeting most government and industrial specifications for EMI control. With low assembly and installation costs, the PCB filter helps keep your project on budget. By mounting the PCB filter at the source of the problem, we eliminate the need for additional filtering at other points in the circuit. The filter mounts directly to a printed circuit board with no mounting bracket or plate needed, providing you with a lower total installed cost. In addition, the PCB filter can be flow-soldered with other components.

API's PCB filter has built-in standoffs, which allow for cleaning or coating beneath the filter, and the filter is encapsulated for environmental protection.

Features

- Provides EMI filtering to protect low power digital circuits - helps equipment meet FCC and VDE specifications
- Mounts directly to printed circuit board with no bracket or plate for lower applied costs - can be flow soldered with other components
- Encapsulated for environmental protection
- Mounts on PCB to begin filtering at the source of the problem
- Built-in standoffs permit cleaning or coating under the filter

Circuit Schematic



Typical Electrical Characteristics

- Current Max. 10A DC; 0.3A RF
 Operating Voltage Max. 50 VDC, -25°C to +85°C
 Capacitance 800 pF min.
 Dissipation Factor 0.1 Max.
 Dielectric
 Withstanding Voltage 125 VDC for 5 seconds
 Insulation Resistance Min. 100 MegOhms at 100 VDC for 2 minutes and 25°C
- Direct Current
 Resistance 0.002 ohms Max.
 Minimum No-Load
 Insertion Loss Per MIL-STD-220 at 25°C; PCB mounted, 50 ohm strip line
- 3dB @ 8 MHz
 - 10dB @ 25 MHz
 - 15dB @ 50 MHz
 - 20dB @ 100 MHz-1GHz

Preformed to Recommended Mounting Configuration Part Number 842448-2

