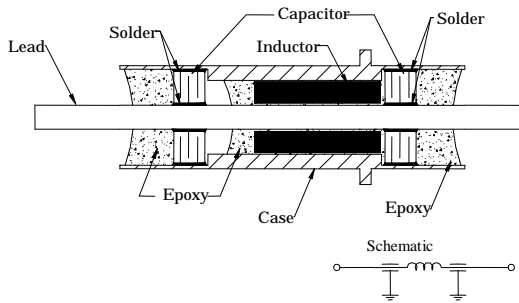


EMI FILTERS "PI" TYPE

FILTER PIN

Filter Pin - Pi-Section, Solder Mount, Epoxy Sealed



FEATURES:

- Similar to MIL-F-15733/33 and /62.
- Epoxy resin encapsulated.
- Discoidal capacitor construction.
- Superior resistance to mechanical/thermal stress.
- Solder-in style.
- Excellent input to output signal isolation.

APPLICATIONS:

PA&E's filter pins are designed with discoidal capacitors utilizing highly reliable multi layer dielectric construction in order to minimize the effect of mechanical/thermal stress during and after soldering installation. The PI circuit contains two capacitive elements and one inductive element which will provide typical insertion loss of 60 dB per decade. A PI filter is a symmetric filter that presents a low impedance to both source and load, especially at high frequencies. It is best suited for systems where the source and load impedance are relatively high and where no attenuation is allowed in the low pass band, but sharp roll-off is desired beyond the cut-off frequency. Due to its multiple element construction, PI filters are also recommended for circuits where the source and load impedances vary from low to high depending on the circuit functions. If one of the impedances become low, the filter will function as an LC section and if both impedances get reduced, the PI filter will still function as an L section. Typical of these applications are signal or pulse transmission lines found in telecommunications, telemetry, and radar systems.

