



SABRITEC

Filter Connector Technology



EMI/EMP/ESD Transient Protection

The heart of the filter connector is the capacitor array. Sabritec manufactures the monolithic ceramic capacitor array in both thick film and multilayer form. Using a dry process to laminate the layers of X7R ceramic tape, Sabritec is capable of achieving capacitance values from 50pF to 100nf on the same array.

Our extensive in house capability allows for unique applications and arrangements not engineered elsewhere in the connector world. This may include mixed contact sizes, new insert arrangements, or high voltage applications up to 1500 VDC Dielectric Withstand Voltage (DWV). Sabritec has over 20 Years experience in rugged Mil/Aero Filter connector design, manufacture and assembly.

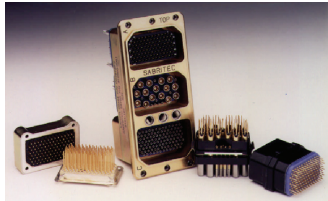
In-house ceramic manufacturing allows for:

- Custom configurations
- Mixed capacitance w/high voltage capability (up to 1500 VDC)
- Transient protection that can be combined with EMI filtering
- Filtering of ANY type of connector

Our Products

Sabritec designs and manufactures a full spectrum of sophisticated filter connector products. Our specialty is in the design of interconnect solutions addressing EMI/RFI filtering, and transient protection to meet demanding HIRF and Lightning requirements.

In addition to MIL-Spec interface type products, many of our designs are unique, built to conform to customer specifications requiring a high level of integration, special packaging, and critical electrical performance. Innovation is our distinction and our products address a wide variety of applications. Our achievements lead the industry in the design and manufacture of special filter connector products.




Advantages of Sabritec Filter Connectors



- Transient protection can be combined with EMI filtering if required
- Standard “catalog” diodes are used instead of custom downsized low wattage chip diodes susceptible to failure
- Mixture of diode parameters varying power, voltage and polarity within the same connector is available
- Diodes can be removed and replaced without disassembly of the connector
- Transient protection is located at the interface of the system
- Separable diode and filter modules are more easily repaired
- Diodes and filters are protected by the shell reducing environmental and mechanical damage
- System retrofit to EMP/EMI is compatible with unprotected connectors
- EMI/RFI/low passfiltering and EMP protection
- EMP protection TAZ devices
- Diodes are field removable/replaceable
- System weight is reduced by integrating the filters and diodes into the connector
- Single capacitor array can provide multiple capacitance values



 Sabritec is able to offer lead free filter connector solutions upon request. Consult factory for more details.

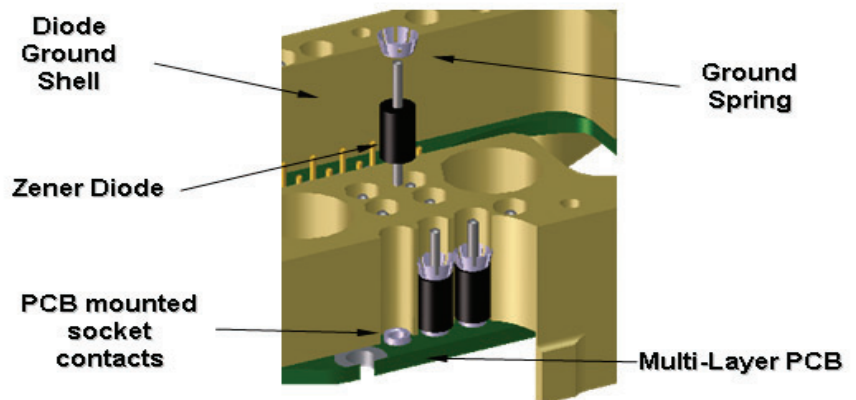
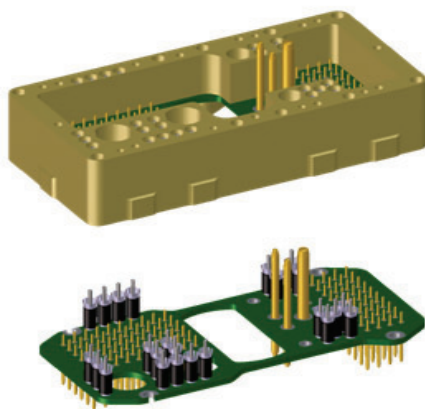
Qualification Data

Sabritec’s filter connectors have successfully completed qualification to the applicable requirements of MIL-DTL-38999, MIL-C-26482, ARINC 404, and ARINC 600. Because of our extensive array of test equipment, we are able to complete most qualification requirements in house including all S-level space grade qualification and acceptance lot testing.

Sabritec’s Filter Connectors meet or exceed the applicable requirements of the following specifications:

MIL-DTL-38999	MIL-C-26482
MIL-DTL-83723	MIL-DTL-26500
MIL-DTL-24308	MIL-DTL-83733
MIL-DTL-83513	MIL-C-81511
MIL-DTL-83527	ARINC 404/600

EMP Filter Construction



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