SMPS Capacitors for Military Radars Systems

Switch mode power supply ceramic capacitors protect from RF interference.

Whether land-based, airborne, or shipboard, military radar systems are susceptible to RF interference. APITech's Switch Mode Power Supply (SMPS) Ceramic Capacitors protect the systems by leveling out the voltage fluctuations in the AC/DC converters of the power supply.

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Why Military Chooses APITech Capacitors

APITech has been designing ceramic capacitors for military applications for many years, offering the largest selection of EMI capacitor sizes and configurations in the industry. This includes products in accordance with military standards MIL-PRF-49470, DSCC 87106, plus custom specifications. We also offer compliance testing for both EMC and environmental specifications.

APITech's SMPS capacitors are multi-layer assemblies with low equivalent series resistance (ESR) and equivalent series inductance (ESL).

APITech's ceramic capacitors are designed and produced in our State College, PA (USA) facility. Our capacitors are ideally suited for EMI/RF suppression filters for military applications, including power supplies and converters.



The composition of the ceramic material in SMPS capacitors defines the electrical behavior and therefore the application.



RF interference is common in military radars. SMPS capacitors safeguard against this.

Product Differentiators

APITech's SMPS capacitors are designed to provide superior performance in high-frequency switching applications. These capacitors are ideal for bulk capacitance and pulsing applications and are available in a range of different footprints and mounting configurations.

SMPS capacitors are high reliability and are available in non-standard package sizes, including vertical chip stack orientation.

Features include:

- 2020 and larger chip sizes available
- 25VDC to 2000VDC voltage ratings
- Stable class II, BX, BQ, BR, and X7R dielectric materials available
- + Capacitance values $0.01 \mu F$ to $47 \mu F$

Technical Contact

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