

PA&E Filter Division, formerly, Ceramic Devices, Inc. (CDI), was founded in 1982 to provide filtering solutions to electromagnetic interference (EMI) problems which plague manufacturers of high-performance, high-reliability electronic systems.

EMI is an intermittent or continuous noise which is radiated or conducted into or out of electronic equipment, disrupting the normal operation of electronic systems. Sources of EMI include broadcast transmitters, motors, power supplies and microwave devices. High frequency EMI is often catastrophically disruptive to sensitive electronic circuits and the characteristics of this noise can seldom be predicted for the system's operating environment. Elimination of these undesirable signals is usually accomplished during field testing of the system and hence solutions require creativity under extreme time constraints. Designing EMI-free circuit housings including access and egress for "pure" signal and power lines in military and aerospace electronics systems is usually accomplished using combinations of discoidal multilayer ceramic capacitors and ferrite inductors in a filter assembly. The filter division's engineering staff are experts in designing EMI filters for electronic circuits operating in hostile EMI environments. The filter division is a military-qualified business whose growth has been accomplished by quickly providing innovative solutions to EMI problems encountered by military and aerospace users in the field. A fully integrated filter manufacturer, the filter division fabricates the highest quality discoidal multilayer capacitors in their Wenatchee, Washington facilities. High volume manufacturing of complex, multi-component filters to meet tough environmental and performance specifications and subjecting the assemblies to military testing and screening requirements is routine at PA&E.

- QPL listed supplier of MIL-F-15733, EMI/RFI filters.
- QPL listed supplier of MIL-F-28861, level "B" for ceramic feed-through filters and capacitors.
- "S" level screening to MIL-F-28861 is available when specified.
- Qualified supplier on SSQ 21215, 21216, and 21218.
- All devices meet or exceed the requirements of MIL-F-28861 and/or MIL-F-15733.
- QC system complies with MIL-I-45208, MIL-STD-790, ISO 9001 and AS9000.
- Current DSCC selected item drawings that list CDI as a source of supply are: 84080, 84081, 84082, 84083, 84084, 86131, and 88010.
- Custom EMP and lightning protection devices to withstand 1500 volt surges, utilizing ceramic capacitors, ferrites, and diodes.
- Responsive design and prototype service available to meet your standard or custom requirements. Engineers and buyers are encouraged to utilize PA&E's quick delivery capability for both sample or production quantities.