

Military Specification Primer

MIL-PRF-15733 “General Specification for Filters and Capacitors and Radio Frequency Interference.” All TSE products are designed and manufactured to the general requirements of 15733. All products are tested to Group A as applicable. Other testing is available on request.

MIL-STD-202 “Test Methods for Electronic and Electrical Component Parts.” To successfully test a part, a test requirement, usually contained in the top document, and a test method are required. MIL-PRF-15733 specifies the test requirement and calls out MIL-STD-202 for most test methods.

MIL-STD-220B “Method of Insertion Loss Measurement.” MIL-STD-220B specifies full load Insertion Loss measurements between 100KHz and 20MHz. For AC rated parts, MIL-STD-220B specifies using the DC equivalent of the peak AC current.

MIL-STD-461 “Requirements for the Control of Electromagnetic Interference, Emissions, and Susceptibility of Subsystems and Equipment.” MIL-STD-461 specifies the EMI Control requirements for systems and equipment (not filters). See TSE Tech Note 1106PZ.

MIL-PRF-28861 “Filters and capacitors, RFI / EMI.” This specification is like 15733 except 28861 is for parts using ceramic capacitors and it has established reliability levels.

MIL-I-45208 “Inspection System Requirements.” This specification is used as the TSE Quality Specification along with TSE Quality Assurance Procedures QA7000.

ASTM B545 “Tin Plating, Electro Deposited or Hot Dipped. This specification replaced MIL-T-10727.” TSE uses Type I, Electro deposited with 3% minimum lead. As part of the process, TSE parts are hot oil fused after plating. The minimum lead content prevents ‘tin whiskers’.

MIL-STD-810 “Environmental Engineering Considerations and Laboratory Test.” This document specifies environmental test methods and procedures. (782 pages with change notices).