

Proposed EP STUDY No.	MIL-STD-1580 proposed issue to be addressed for Revision C
#1	Requirement 10. MIL-PRF-55514 needs to have reqmts developed for MIL-STD-1580.
#2	A detailed treatment of the RF sections is required for future revisions. Reason: Many of the unique types of RF/Microwave components are not covered at all or are lumped with other part types and treated in too general a manner. The effort required to correct this is large and would hold up publication of this revision too long, if it were addressed at this time. It is necessary however to address this issue and the effort should begin as soon as revision B is released.
#3	Capacitor section (requirement 10). One of the reasons for doing DPA is independent verification of quality and workmanship, regardless of the reliability level of the parts. <b>Radiographic inspection</b> is a non-destructive test that provides additional data points prior to performing the destructive operations. Add the requirement for Radiography after External Visual for each capacitor type.
#4	Paragraph 10 General. It is strongly recommended that DPA pre electrical testing be specified as requirements for capacitors. Not addressing functional electrical testing because of the assumption that they have been satisfied by normal inspection and testing causes a problem. These problems originate when Parts Program Plans are developed and reference this standard for DPA requirements. DPA reports are generated for some programs that omit electrical testing altogether, yet, though it should not happen, failures are found in DPA electrical testing in those other programs where both receiving electrical testing and DPA testing are requirements. It is suggested that electrical testing be placed in this standard as a requirement, either in a general requirements paragraph for particular types of parts, or in the part details portion of the DPA requirements. Requirements related to test frequency, test voltage, biasing of polarized capacitors, and parameter tests minimums (capacitance, dissipation factor, insulation resistance, dielectric withstanding voltage and sequence of such tests) are recommended to be addressed
#5	Delete rqmt 10.5 in it's entirety. Obsolete part, no longer in production.
#6	Look at possible inclusion of filter pins (Connectors). In Requirement 11
#7	Paragraph 18 General. Not addressing functional electrical testing because of the assumption that they have been satisfied by normal inspection and testing causes a problem. These problems originate when Parts Program Plans are developed and reference this standard for DPA requirements. DPA reports are generated for some programs that omit electrical testing altogether, yet, though it should not happen, failures are found in DPA electrical testing in those other programs where both receiving electrical testing and DPA testing are requirements. It is suggested that electrical testing be placed in this standard as a requirement, either in a general paragraph for particular types of parts, or in the part details portion of the DPA requirements. Requirements related to test frequency, test voltage, and parameter tests minimums (resistance, insulation resistance, and dielectric withstanding voltage and sequence of such tests) are recommended to be addressed.
#8	Requirement 22. The title would be clearer if it read: "Detailed Requirements for Selected RF Passive Devices". (We could debate if the diode in a detector makes it an "active" device. But, you do not represent truly "active" RF devices like amplifiers, solid state & MMIC switches, multipliers or even mixers.)