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Murchison Widefiled Array **PCB Requirements**

Per the IPC, these are the appropriate level of requirement for ground-based, dedicated service electronic products where extended life is required.

PCB DESIGN

Printed Wiring Board (PWB) design shall be in accordance with the following IPC standards:

- a) IPC-2221, Generic Standard on Printed Board Design
- b) IPC-2222, Sectional Design Standard for Rigid Organic Printed Boards

PCB FABRICATION AND ACCEPTANCE

Printed Wiring Boards (PWBs) shall meet the Class 2 requirements and the Performance Specification Sheet of the following IPC standards:

- a) IPC A-600, Acceptability of Printed Boards
- b) IPC-6011, Generic Performance Specification for Printed Boards
- c) IPC-6012B Qualification and Performance Specification for Rigid Printed Boards .

CONFORMANCE TEST SPECIMENS

When boards utilize plated-through holes or buried vias, conformance test specimens (usually referred to as coupons), shall be evaluated and meet the requirements of section 12 of IPC-2221, for Class 2 assemblies. The evaluation shall be done prior to component assembly.

PRINTED WIRING ASSEMBLIES

Populated printed circuit boards (after soldering) shall meet the following IPC requirements for Class 2 assemblies

- a) IPC-A-610, Acceptability of Electronic Assemblies

