



Test Request Form: MIL-PRF-31032 Periodic Conformance Inspection

Company: _____ Date: _____
Address: _____ NTS Quotation Number: _____
City: _____ State: _____ Postal Code: _____ Purchase Order: _____
Country: _____ Cage Code / MFR# _____ PO Authorized Signature: _____

Contact: _____ Phone: _____ Email: _____

Part Number: _____ Revision: _____ Production Month & Year: _____ Date Code: _____
Serial Numbers: _____ Lot Number: _____

Please indicate the specification sheet that the samples will be tested to:

Submission is for DLA monthly/annual retention

ITAR Requirement:

MIL-PRF-31032 Revision: _____ Amendment: _____ (default to latest revision/amendment unless otherwise specified)

Material Type: IPC-4101 / _____ IPC-4103 / _____ IPC-4204 / _____ Board Type: _____
Adhesiveless _____ Slash # required _____ Slash # required _____ Slash # required _____ Total Layers: _____

Periodic Conformance Inspection baseline test coverage requirements by specification slash number

Rework Simulation (/1 /2 /3 /4 /5 /6)

Submit (2) type 'A' coupons representing the typical component hole or actual production sample.

Moisture and Insulation Resistance (/1 /2 /3 /4 /5 /6)

Submit (2) type 'E' coupons ("Y" conductor pattern) [Same coupons can be used for DWV]

Dielectric Withstanding Voltage (/5 /6 [Option: IPC-TM-650, Method 2.5.7])

Submit (2) type 'E' coupons ("Y" conductor pattern) [Same coupons can be used for MIR]

Surface Peel Strength (/1 /4)

Submit a total of (8) type 'N' or 'P' coupons from a minimum of (2) different production lots (four each from two lots). COPPER SAMPLES ONLY. All surface finish plating or coatings should be chemically removed from specimens prior to test. [Type 3, foil lamination only]

Lot #1 ID: _____ Lot #1 s/n(s): _____

Lot #2 ID: _____ Lot #2 s/n(s): _____

Lot #3 ID: _____ Lot #3 s/n(s): _____

Lot #4 ID: _____ Lot #4 s/n(s): _____

Laminate Foil Peel Strength (/5 ONLY)

Submit a minimum of (2) samples, 50.8 mm x 50.8 mm [2.0 x 2.0 in] by the thickness of the laminate.

Lot #1 ID: _____ Lot #1 s/n(s): _____

Copper Tensile Strength/Elongation (/1 /2 /3 /4 /5 /6)

Submit (1) sheet of copper per tank. Minimum size of 12" x 12", plated 2-4 mils thick with the tank and vertical direction identified.

Tank ID(s): _____ Production Month & Year: _____

Copper Purity (/1 /2 /3 /4 /5 /6)

Samples will be taken from the same sheet of copper for tensile/elongation.

Flexibility Endurance (/4 /5)

Samples will be taken from the same sheet of copper for tensile/elongation.

Folding Flexibility (/4 /5)

Samples will be taken from the same sheet of copper for tensile/elongation.

Lap Shear Strength (/5 /6)

Submit (2) type 'E' coupons ("Y" conductor pattern) [Same coupons can be used for MIR]

Bond Strength (/5 ONLY)

Submit (2) type 'E' coupons ("Y" conductor pattern) [Same coupons can be used for MIR]

Resistance to Solvents (IPC-TM-650, Method 2.3.4)

Test not required per MIL-PRF-31032. Submit (3) production boards or coupon strips with ink or paint markings.

Additional Tests / Instruction / Comments: _____

All final test reports are uploaded to [NTS LabInsight](#) for secure customer retrieval. A Hard copy may be requested for an additional fee.

FORM MUST BE SUBMITTED WITH SAMPLES ALONG WITH A HARD COPY OF THE PURCHASE ORDER