



PCB DESIGN CHECKLIST

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PROJECT ID 2012618

Engineer:	HIEU NGUYEN	Part Number:	600-00419-00-
PCB Designer:	VINH LY	Revision:	2
MECH Designer:	N/A	Board Name:	EVAL, 75 OHM
Checker:	M. LYONS	Review Date:	5/9/12 msl

Designer Checker

Layout Verification

Spacing and Connectivity
Impedance Control Rules
Power Planes
VIA types
GND VIAS
IC center GND slugs
Printed Components
Unused pads
Soldermask
Silkscreen review
Fiducials

No ERRORS FOUND
75 OHM 28/20
(PWR current capacities/GND plane around strip-line VIAS)
(Blind/Back-drilled/FILLED/HOT VIAS/ Mask for MTG vias)
(IC centers/SMA pattern/RF Shielding/cover wall centers/antennas)
(VIAS placed/Solder-mask/Paste-mask copper)
(Layer 20/Solder-mask/Keep-out/VIAS inside & outside keep-out)
(If removing-preserve via pads on start/end layers)
(10mil solder dam/no silkscreen in solder-able area)
(Polarities/board #/HMC logo/Connector labels/Omitted Ref Des)
(Omit Ref Des from silkscreen/add to stencil for Assy. house)

Mechanical

Cover Wall
Cover & Mounting holes
Critical comp. locations
Keep-out areas
Solder-mask openings

(Thickness/keep-out/solder-mask size)
(Sizes and locations)
(Connectors/Substrates/Dimensions/Bottom layer clearances)
(Verify keep-outs per components, VIAS, GND pour, etc)
(screws-washers/Cover wall oversize/Bottom around connectors)

DXF BACKCHECK WITH MECHANICAL DESIGNER!

Fabrication

Specify IPC standard
PCB Dimensions
Layer stack-up detail
Material, copper weight
Finish plating requirements
Special requirements
VIA fill requirements
Verify Minimum annular ring
Hole Chart

600 6012 CLASS 2
(overall/cutouts/radius/angles/Edge plating/coupons)
(VIA cross-section/Layers/Thickness as Critical Dimension)
(Stack-up to match notes)
(Multi-finish/Wire-bonding/OSP)
(Impedance-line widths/Blind or Back-drilled VIAS/Edge plate)
(Shown in cross-section detail and/or in notes)
(VIAS and thru holes)
(Match drill files/Partials/Merge drill sizes/Tolerances)

Gerber, Drill Data

Artwork, output files
Printed Components
Soldermask
Stencil/Paste-mask
NCDrill data for Thru & Partial VIAS
GC-Prevue file review
ZIP file

(Appropriate labels & RS-274X output format)
(Proper size shapes and gaps/Metal-01 layer 20)
(Oversize 8 mils/If POSITIVE Image-it must be clearly labeled)
(Undersize 2 mils/omit printed components/)
(3 files for each: .rep, .drl, .lst)
(Engineer check/Design Review)
(Readme.txt/Output files /FAB PDF/ IPC Netlist/aperture.rep/
ASCII file V5.0/Component X-Y list/GC-Prevue)

Assembly (as applicable)

Ref Des readable/NOTES/Detail views/Electrostatic note & symbols/DEPOP components

Design Review