



PCB DESIGN CHECKLIST

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Engineer:	K. BENSON	Part Number:	000-00830
PCB Designer:	N. LY	Revision:	3
MECH Designer:	—	Board Name:	EVAL
Checker:	M. LYONS	Review Date:	
ECR Number:	QC121002	Charge Number:	2012618

Designer	Checker	N/A	Layout Verification	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Spacing and Connectivity	NO ERROR FOUND 11.5/9 / 13/20 PWR current capacities/net verification Blind/Back drilled/FILLED/HOT VIAS/ Mask for MTG vias RF Shielding/Cover wall centers/antennas Vias placed/Soldermask/Pastemask copper Layer 20/Soldermask/Keep outs If removing-preserve via pads on start/end layers 10mil solder dam/no silkscreen in solderable area Polarities/Board #/HMC logo/Connector labels Omit Ref Des from silkscreen/add to stencil
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Impedance Control Rules	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Power/GND Planes	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VIA types	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GND VIAS	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	IC center GND slugs	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Printed Components	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Unused pads	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Soldermask	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Silkscreen	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fiducials	
			Mechanical	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cover Wall	Width/keep out/soldermask size
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Cover & Mounting holes	Sizes and locations
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Critical comp. locations	Connectors/Dimensions/Bottom layer clearances
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Keep-out areas	Verify keep outs for components, VIAS, GND pour, etc
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Solder-mask openings	Screws-washers/Bottom around connectors
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DXF Verification	
			Fabrication	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Specify IPC standard	6012 CL2 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/Back drilled vias/Edge plating Shown in cross-section detail and/or in notes VIAS and thru holes Match drill files/Partials/Merge drill sizes/Tolerances
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PCB Dimensions	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Layer stack-up detail	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Material, copper weight	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Finish plating req.	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Special requirements	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VIA fill requirements	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Minimum annular ring	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hole Chart	
			Gerber, Drill Data	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Artwork, output files	Appropriate labels & RS-274X output format)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Printed Components	Proper size shapes and gaps/Metal-01 layer 20
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Soldermask	Oversize 8 mils/POSITIVE Image-must be clearly labeled
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Stencil/Paste-mask	Undersize 2 mils/omit printed components
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	NCDrill	3 files for each type: .rep, .drl, .lst
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC-Prevue file	Engineer check/Design Review
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ZIP file	Readme.txt/output files/fab pdf/IPC Netlist/aperture.rep/ASCII file/Component XY/GC-Prevue/copy of this checklist
			Assembly Dwg	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ref Des readable	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Notes	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Detail Views	