CIRCUIT DESIGN CHECKLIST



Product Name:	
Date:	
Product requirement specification defined	Yes
	Νο
Artwork and Mechanical approved	Yes
	Νο
Mechanical Board Constraints	Board outline
	Mounting holes
	Connector locations and Orientations
	Hardware clearances and fasteners
	Max height of components
	Strain relief for cables
	Clearance for bend radius of cables
Components:	Footprints match the manufacturers specifications
	Component to component clearance
	Component to Mounting Hole or board edge
	Component height clearance
	check pin numbers of all custom-generated parts
	Voltage ratings of components checked
	Pin one or Polarity clearly marked
	All parts on the BOM
	All Parts have company part numbers
	Sample request sent to Purchasing

Phase Checked

Ground checked

Trace Widths appropriate to current carrying

Sufficient power rails for analog circuits

Separate analog signals from noisy or digital signals

Digital and analog signal commons joined at only one point

Check all power and ground connections to ICs

TBD And DNS components identified

Sch forced updated to corporate library

Check for traces running under noisy or sensitive components

Acute Angles or etch traps removed

Break out from pads sufficient? Fillets needed

Copper pour, 25mil back off from PCB edge

Even Copper Distribution

Board name and part number with revision

Title Block and Rev Block filled in

Mounting holes electrically isolated or not

Component and trace keepout areas observed

Run DRC before generating Gerbers

Automated netlist check

Vias are covered by soldermask

Part obsolescence review

Ref Des re Numbered and back annotated to sch

Special Assembly requirements on Assy layer

Gerbers approved