DFM analysis report_JLCDFM

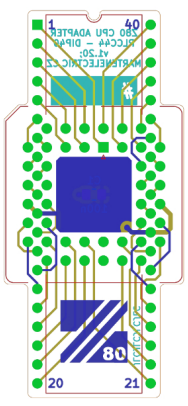
File name: **z80_plcc44dip40_adapter_v120**

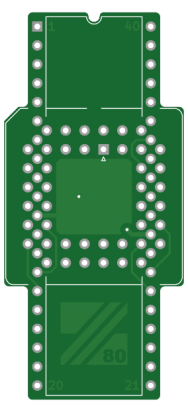
Report generated at: **2025-09-07 21:55:39**

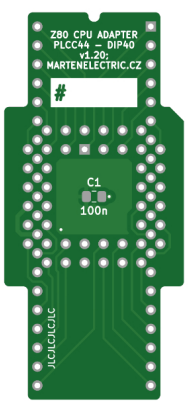
PCB layers: **2**

PCB size: **2.41x5.21cm**

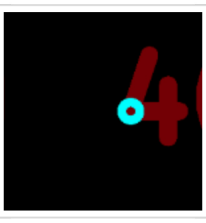
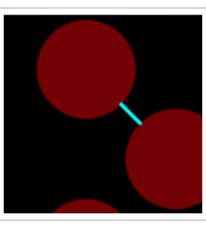
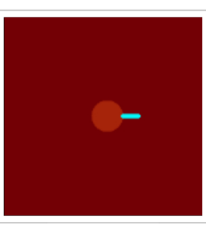
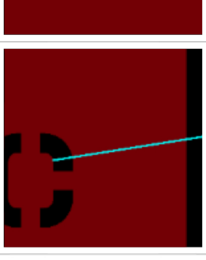
Analyze project: ☑ **PCB DFM** ☐ **SMT DFM**







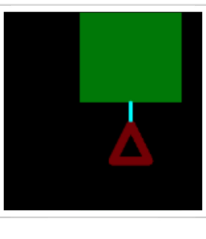
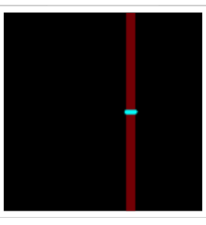
PCB DFM>Routing layer analysis

Analyze project	Analysis results	PCB screenshot	Layer distribution	Statistics
Sharp trace corner (Check for sharp corners in traces)	null **Warning**		z80_plcc44dip40_adapter_v120-F_Cu.gtl	Danger: 0 Warning: 3 Good: 0
BGA pad (Check BGA pads on the board)	No	No	No	Danger: 0 Warning: 0 Good: 0
Via placed within a pad (Check if there is a via placed within a pad)	No	No	No	Danger: 0 Warning: 0 Good: 0
Trace to board edge (Detect traces too close to the board edge)	No	No	No	Danger: 0 Warning: 0 Good: 0
Trace spacing (Measure spacing between adjacent parallel traces)	No	No	No	Danger: 0 Warning: 0 Good: 0
Unconnected trace end (Free-standing trace ends not connected to pads)	null **Warning**		z80_plcc44dip40_adapter_v120-F_Cu.gtl	Danger: 0 Warning: 9 Good: 0
Trace width (Trace width information)	0.25mm **Good**		z80_plcc44dip40_adapter_v120-F_Cu.gtl	Danger: 0 Warning: 0 Good: 3
Fiducial (Detect fiducial marks on the board)	No	No	No	Danger: 0 Warning: 0 Good: 0
Pad to board edge (Measure distance of pads from the board edge)	No	No	No	Danger: 0 Warning: 0 Good: 0
Pad spacing (Measure pad to pad spacing)	0.38mm **Good**		z80_plcc44dip40_adapter_v120-F_Cu.gtl z80_plcc44dip40_adapter_v120-B_Cu.gbl	Danger: 0 Warning: 0 Good: 97
Plated through-hole to trace clearance (Measure clearance of plated through-holes to traces)	No	No	No	Danger: 0 Warning: 0 Good: 0
Annular ring (Annular ring width of pads compared to holes)	0.2mm **Good**		z80_plcc44dip40_adapter_v120-F_Cu.gtl z80_plcc44dip40_adapter_v120-B_Cu.gbl	Danger: 0 Warning: 0 Good: 4
tht to smd (Detect clearance of vias to pads)	4.08mm **Good**		z80_plcc44dip40_adapter_v120-B_Cu.gbl	Danger: 0 Warning: 0 Good: 28
Via to pad (Detect clearance of vias to pads)	No	No	No	Danger: 0 Warning: 0 Good: 0

PCB DFM>Soldermask layer analysis

Analyze project	Analysis results	PCB screenshot	Layer distribution	Statistics
Soldermask bridge (Detect distance between parallel soldermask opening edges)	No	No	No	Danger: 0 Warning: 0 Good: 0
Solder mask opening exposing trace (Detect clearance of solder mask openings to nearby traces)	No	No	No	Danger: 0 Warning: 0 Good: 0
Soldermask opening with multiple segments (Check if solder mask openings are constructed from multiple geometric shapes)	No	No	No	Danger: 0 Warning: 0 Good: 0
Negative soldermask expansion (Detect solder mask openings smaller than their corresponding pads)	No	No	No	Danger: 0 Warning: 0 Good: 0

PCB DFM>Silkscreen layer analysis

Analyze project	Analysis results	PCB screenshot	Layer distribution	Statistics
Silkscreen to pad (Detect clearance of silkscreen to pads)	0.24mm **Good**		z80_plcc44dip40_adapter_v120-F_Silkscreen.gto z80_plcc44dip40_adapter_v120-B_Silkscreen.gbo	Danger: 0 Warning: 0 Good: 6
Silkscreen to hole (Detect clearance of silkscreen to holes)	No	No	No	Danger: 0 Warning: 0 Good: 0
Silkscreen line width (Check silkscreen line width)	0.12mm **Warning**		z80_plcc44dip40_adapter_v120-F_Silkscreen.gto z80_plcc44dip40_adapter_v120-B_Silkscreen.gbo	Danger: 0 Warning: 21 Good: 13

PCB DFM>Drill layer analysis

Analyze project	Analysis results	PCB screenshot	Layer distribution	Statistics
Unconnected via (Detect isolated unconnected vias)	No	No	No	Danger: 0 Warning: 0 Good: 0
Missing plated through-hole (Detect top and bottom pads at the same location without plated through-holes)	No	No	No	Danger: 0 Warning: 0 Good: 0
Unconnected via (Detect isolated unconnected vias)	No	No	No	Danger: 0 Warning: 0 Good: 0
Plated through-hole spacing (Measure spacing between plated through-holes)	No	No	No	Danger: 0 Warning: 0 Good: 0
Short slot detection (Detect slots shorter than twice their width)	No	No	No	Danger: 0 Warning: 0 Good: 0
Slot width check (Measure slot width)	No	No	No	Danger: 0 Warning: 0 Good: 0
Via to PTH spacing (Measure spacing of vias to plated through-holes)	No	No	No	Danger: 0 Warning: 0 Good: 0
Unconnected via (Detect isolated unconnected vias)	No	No	No	Danger: 0 Warning: 0 Good: 0