



















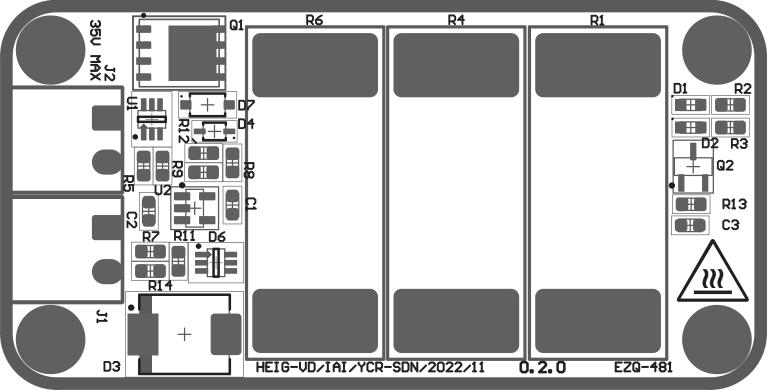


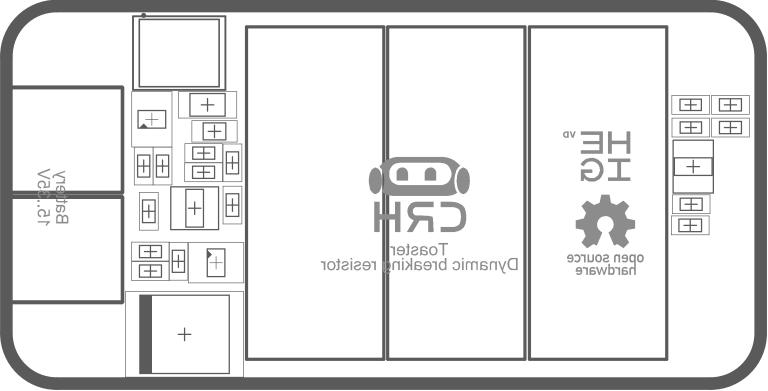


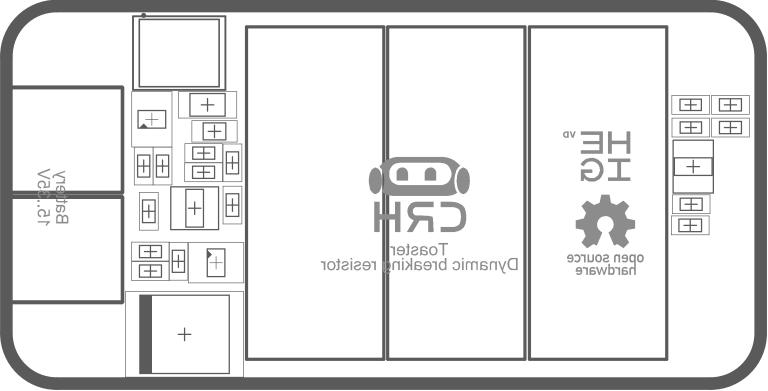


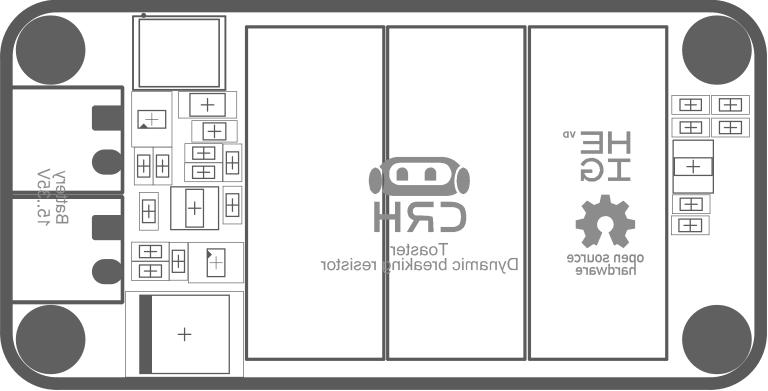
Toaster Dynamic breaking resistor

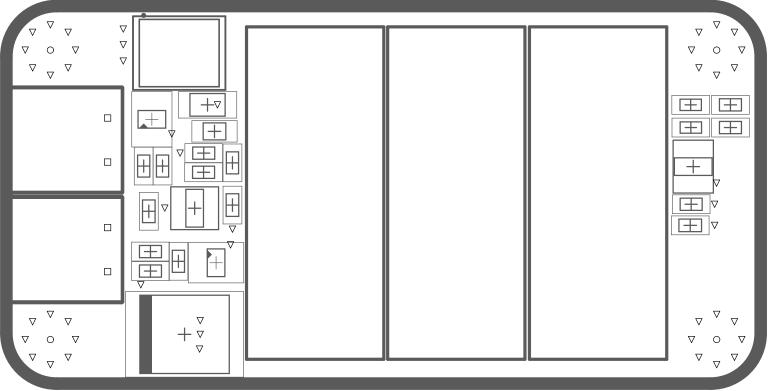


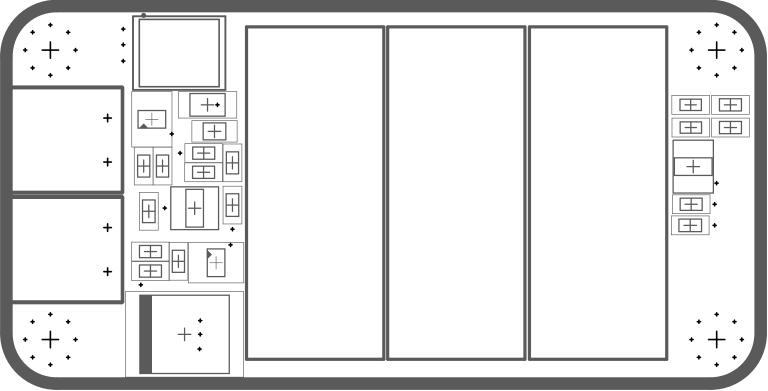












Line #	Designator	Value	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1
	C1	100nF	1	Wurth Electronics	885382206004	Digi-Key	732-13187-1-ND	0.0946
	C2	100nF	1	Wurth Electronics	885382206004	Digi-Key	732-13187-1-ND	0.0946
	C3	2.2uF	1	Murata	GRT188R61H225KE13D	Digi-Key	490-12332-1-ND	0.2838
	D1	150060BS55040	1	Wurth Electronics	150060BS55040	Digi-Key	732-12013-1-ND	0.17974
	D2	150060BS55040	1	Wurth Electronics	150060BS55040	Digi-Key	732-12013-1-ND	0.17974
	D3	SMCJ22A	1	Littelfuse	SMCJ22A	Digi-Key	SMCJ22ALFCT-ND	0.53922
	D4	SD101BWS-TP	1	MCC	SD101BWS-TP	Digi-Key	SD101BWSTPMSCT-ND	0.3311
	D6	TL431BCDCKT	1	Texas Instruments	TL431BCDCKT	Digi-Key	296-TL431BCDCKTCT-ND	1.08
	D7	BZT52-C15	1	Pan Jit	BZT52C15_R1_00001	Digi-Key	3757-BZT52- C15_R1_00001CT-ND	0.15136
	J1		1	Molex	0395021002	Digi-Key	WM7770-ND	0.64328
	J2			Molex	0395021002	Digi-Key	WM7770-ND	0.64328
	Q1	STL2N80K5	1	STMicroelectronic s	STL2N80K5	Digi-Key	497-14539-1-ND	1.61
	Q2	DMN67D7L-7	1	Diodes	DMN67D7L-7	Digi-Key	DMN67D7L-7DICT-ND	0.26488
	R1	10	1	Ohmite	RW5S0FA10R0JE	Digi-Key	RW5S0FA10R0JE-ND	1.53
	R2	4.7k	1	Yageo	AC0603FR-074K7L	Digi-Key	YAG3613CT-ND	0.0946
	R3	4.7k	1	Yageo	AC0603FR-074K7L	Digi-Key	YAG3613CT-ND	0.0946
	R4	10	1	Ohmite	RW5S0FA10R0JE	Digi-Key	RW5S0FA10R0JE-ND	1.53
	R5	100	1	Yageo	AC0603FR-07100RL	Digi-Key	YAG3561CT-ND	0.0946
	R6	10	1	Ohmite	RW5S0FA10R0JE	Digi-Key	RW5S0FA10R0JE-ND	1.53
	R7	4.7k	1	Yageo	AC0603FR-074K7L	Digi-Key	YAG3613CT-ND	0.0946
	R8	24k	1	Yageo	AC0603FR-0724KL	Digi-Key	YAG3583CT-ND	0.0946
	R9	27k	1	Yageo	AC0603FR-0727KL	Digi-Key	YAG3585CT-ND	0.0946
	R10	270k	1	Yageo	AC0603FR-07270KL	Digi-Key	YAG3584CT-ND	0.0946
	R11	82k	1	Yageo	AC0603FR-0782KL	Digi-Key	YAG3633CT-ND	0.0946
	R12	18k	1	Yageo	AC0603FR-0718KL	Digi-Key	YAG3570CT-ND	0.0946
	R13	560k	1	Yageo	AC0603FR-07560KL	Digi-Key	311-560KLDCT-ND	0.0946
	R14	27k	1	Yageo	AC0603FR-0727KL	Digi-Key	YAG3585CT-ND	0.0946
	U1	ZXGD3009DYTA	1	Diodes	ZXGD3009DYTA	Digi-Key	ZXGD3009DYTADICT-ND	0.40678
	U2	TS391SN2T1G	1	ON Semiconductor	TS391SN2T1G	Digi-Key	TS391SN2T1GOSCT-ND	0.58652

Design Rules Verification ReportFilename: D:\Dropbox\work\heig-vd\teaching\rbt\eda\toaster\toaster.PcbDoc

Warnings 0 Rule Violations 0

Warnings Total 0

Rule Violations	
Clearance Constraint (Gap=0.15mm) (All),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ((All))	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.15mm) (Max=1mm) (Preferred=0.25mm) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Hole Size Constraint (Min=0.25mm) (Max=5.08mm) (All)	0
Hole To Hole Clearance (Gap=0.15mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.1mm) (All),(All)	0
Silk To Solder Mask (Clearance=0.15mm) (IsPad),(All)	0
Silk to Silk (Clearance=0.1mm) (All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) ((InComponent('J1') OR InComponent('J2')))	0
Board Clearance Constraint (Gap=0mm) (All)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	0

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Electrical Rules Check Report

Class	Document	Message
		Successful Compile for toaster.PrjPcb