

Ref	Qty	Value	Mouser	Digikey	Sub	Note	Footprint
C1, C2, C6, C7,	4	0.01uF	MKP2D021001B00KSSD	MKP2D021001B00KSSD			Capacitor_THT:C_Rect_L7.2mm_W3.0mm_P5.00mm_FKS2_FKP2_MKS2_MKP2
C3, C11,	2	0.1uF/100V	MKP2D031001F00KI00	N/A			Capacitor_THT:C_Rect_L7.2mm_W5.5mm_P5.00mm_FKS2_FKP2_MKS2_MKP2
C4, C5, C9, C10,	4	15kU/16V	UKW1E153MRD	UKW1E153MRD	SLPX153M025A9P3		Custom_Footprints:CP_Radial_D22.0mm_P10.00mm_SnapIn_P7.5mm
C8,	1	330uF	EEU-FM1E331LB	EEU-FM1E331LB			Custom_Footprints:CP_Radial_D10.0mm_P2.50mm_P5.00mm
C13, C15, C16, C18,	4	0.1uF	RDE5C1H104J2K1H03B	RDE5C1H104J2K1H03B			SamacSys_Parts:RDE5C1H330J0M1H03A
C12, C14	2	15uF Ta	TAP156K010SCS	TAP156K010SCS			Capacitor_THT:CP_Radial_Tantal_D4.5mm_P2.50mm
C17,	1	1uF Ta	TAP105K025SCS	TAP105K025SCS			Capacitor_THT:CP_Radial_Tantal_D4.5mm_P2.50mm
C19, C22	2	0.01uF	MKP4O121003F00KSSD	MKP4O121003F00KSSD		Not used with tube rectifier	Capacitor_THT:C_Rect_L13.0mm_W5.0mm_P10.00mm_FKS3_FKP3_MKS4
C20, C23	2	0.01uF	MKP4O121003F00KSSD	MKP4O121003F00KSSD		Not used for center tapped transformers or tube rectifier	Capacitor_THT:C_Rect_L13.0mm_W5.0mm_P10.00mm_FKS3_FKP3_MKS4
C24,	1	56uF/450V	LKX2W560MESY25	LKX2W560MESY25	LGR2W560MELZ35		Custom_Footprints:CP_Radial_D22.0mm_P10.00mm_SnapIn_P7.5mm
C26, C27	2	100uF/450V	LKX2W101MESY40	LKX2W101MESY40	LGW2W101MELZ30		Custom_Footprints:CP_Radial_D22.0mm_P10.00mm_SnapIn_P7.5mm
C28,	1	10uF/450V	EKXJ501ELL100MJ30S	EKXJ501ELL100MJ30S			Custom_Footprints:CP_Radial_D10.0mm_P2.50mm_P5.00mm
C21, C25, C29	3	0.1uF/450V	MKP4J031004D00JD00				Capacitor_THT:C_Rect_L18.0mm_W7.0mm_P15.00mm_FKS3_FKP3
C30	1	0.022uF/300VAC+ Y2	BFC233861223	N/A			Capacitor_THT:C_Rect_L18.0mm_W7.0mm_P15.00mm_FKS3_FKP3
D1, D2, D4, D5,	4	SBLF10L25-E3/45	SBLF10L25-E3/45	SBLF10L25-E3/45			Package_TO_SOT_THT:TO-220-2_Vertical
D3,	1	Red	LTL-4266N	LTL-4266N		3mm LED	LED_THT:LED_D3.0mm
D6, D14, D15, D16,	4	UF4007	UF4007-E3/73	UF4007-E3/73			Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
D10, D12	2	UF4007	UF4007-E3/73	UF4007-E3/73		Not used with tube rectifier	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
D11, D13	2	UF4007	UF4007-E3/73	UF4007-E3/73		Not used for center tapped transformers or tube rectifier	Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
D7,	1	Green	LTL-4236N	LTL-4236N		3mm LED	LED_THT:LED_D3.0mm
D8, D9,	2	1N4148	1N4148TA	1N4148TA			Diode_THT:D_DO-41_SOD81_P10.16mm_Horizontal
D17,	1	BZX85B12-TAP	BZX85B12-TAP	BZX85B12-TAP			Diode_THT:D_DO-201_P15.24mm_Horizontal
HS1,	1	Larger Heatsink	529801B02500G	529801B02500G			Custom_Footprints:Heatsink_Fischer_SK129-STS_42x25mm_2xDrill2.5mm
HS2, HS3, HS4, HS5, HS6	4	Smaller Heatsinks	513102B02500G	513102B02500G		Optional on D1, D2, D3, D4 if heater current > 2.4A	Custom_Footprints:Heatsink_Fischer_SK104-STC-STIC_35x13mm_2xDrill2.5mm
HS Mounting	6	TO-220 Mounting Kit	4880MG	4880MG		INSULATION IS REQUIRED	
J1, J3, J4, J6, J7	5	2 pin terminal block 5.08mm	1869664	1869664			Custom_Footprints:TerminalBlock_bornier-2_P5.08mm
J2, J5	1	3 pin jumper	3-644456-3	3-644456-3			SamacSys_Parts:36444563
Shunt	2	2 pin shunt	382811-6	382811-6			
J8, J9	2	3 pin terminal block 5.08mm	1718757	1718757			Custom_Footprints:TerminalBlock_bornier-3_P5.08mm
Q1,	1	2N3904BU	2N3904BU	2N3904BU			Package_TO_SOT_THT:TO-92
Q2,	1	STP11N60DM2	STP11N60DM2	STP11N60DM2			Package_TO_SOT_THT:TO-220-3_Vertical
R1,	1	100R	MBB02070C1000FRP00	MBB02070C1000FRP00			Resistor_THT:R_Axial_DIN0414_L11.9mm_D4.5mm_P15.24mm_Horizontal
R2,	1	3K	MBB02070C3001FCT00	MBB02070C3001FCT00			Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R3,	1	4.7R (1W)	FMP100JR-52-4R7	FMP100JR-52-4R7			Resistor_THT:R_Axial_DIN0411_L9.9mm_D3.6mm_P12.70mm_Horizontal
R4,	1	200K	MBB02070C2003FCT00	MBB02070C2003FCT00			Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R5,	1	470K	MBB02070C4703FCT00	MBB02070C4703FCT00			Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R6,	1	2M	MBB02070C2004FCT00	MBB02070C2004FCT00			Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R7,	1	470R	MBB02070C4700FCT00	MBB02070C4700FCT00			Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R8,	1	300R	MBB02070C3000FC100	MBB02070C3000FC100			Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R9, R10,	2	2.49K	MBB02070C2491FCT00	MBB02070C2491FCT00			Resistor_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal
R11,	1	300K	H4P300KFZA				Resistor_THT:R_Axial_DIN0414_L11.9mm_D4.5mm_P15.24mm_Horizontal
R12,	1	100K	H4P100KFZA				Resistor_THT:R_Axial_DIN0414_L11.9mm_D4.5mm_P15.24mm_Horizontal
R13,	1	1K (USER 5W)	ROX5SSJ1K0	ROX5SSJ1K0		Size per requirements if not using choke	Custom_Footprints:R_Axial_L17.5mm_D6.5mm_P20.5mm_Horizontal
CPF, FMP, HHV, PR03, RR in 3W							
R14, R15,	2	200K	FMP300FTF73-200K	FMP300FTF73-200K			Custom_Footprints:PR03_3W
R16,	1	USER (3W)	MOS3CT631R101J	MOS3CT631R101J		Size per high voltage requirements	Custom_Footprints:PR03_3W
R17,	1	22K	FMP300JT-73-22K	FMP300JT-73-22K			Custom_Footprints:PR03_3W
R18,	1	220R	FMP300JT-73-220R	FMP300JT-73-220R			Custom_Footprints:PR03_3W
R19,	1	250R	MBB0207VD2500BC100	MBB0207VD2500BC100			Custom_Footprints:PR03_3W
R20, R21,	2	10R	FMP300JT-73-10R	FMP300JT-73-10R			Custom_Footprints:PR03_3W
RL1,	1	G2RL-2-DC5	G2RL-2-DC5	G2RL-2-DC5			Relay_THT:Relay_DPDT_Omron_G2RL
RV1,	1	1K	3296W-1-102LF	3296W-1-102LF		Supports almost any 3 pin trimpot, see footprint in thread	Custom_Footprints:Multi_Trimpot
RV2,	1	320VAC 875 Vc	IsoM5-320-B-L2	IsoM5-320-B-L2			Varistor:RV_Disc_D15.5mm_W7.5mm_P7.5mm
RV3,	1	10-15K	3296W-1-103LF	3296W-1-103LF		Supports almost any 3 pin trimpot, see footprint in thread	Custom_Footprints:Multi_Trimpot
TH1,	1	CL-60	CL-60	CL-60			Custom_Footprints:CL-60 NTC
TP1 - TP4	4	Test Points Pos	5000	5000		1mm test point clips, not required	TestPoint:TestPoint_THTPad_D2.0mm_Drill1.0mm
TP5 - TP8	4	Test Points Neg	5001	5001		1mm test point clips, not required	TestPoint:TestPoint_THTPad_D2.0mm_Drill1.0mm
U1,	1	MIC29502WT	MIC29502WT	MIC29502WT	MIC29503WT	Model swapping with J2	Package_TO_SOT_THT:TO-220-5_P3.4x3.7mm_StaggerEven_Lead3.8mm_Vertical
U2,	1	MC7805CT-BP	MC7805CT-BP	MC7805CT-BP			Package_TO_SOT_THT:TO-220-3_Vertical
U3,	1	G3VM-61A1	G3VM-61A1	G3VM-61A1	G3VM-61AY1		Package_DIP:DIP-4_W7.62mm
U4,	1	NE556N	NE556N	NE556N			Package_DIP:DIP-14_W7.62mm
U5,	1	LM317	LM317BT	LM317BT	LT317AT#PBF		Package_TO_SOT_THT:TO-220-3_Vertical