

## Bill of material

Des.	Part type/ part value	Description	Supplier	Case
C1	2N2	Y1 - SAFETY CAP. DE1E3KX222M	Murata	12x4mm p10mm
C2	120uF - 400V	400V - ALUMINIUM ELCAP - KXW SERIES	Rubycon	Dia. 18mm
C3	330pF - 2kV	2kV - DISC CERCAP	Murata	p8mm
C4	100N	X2 - FLM CAP - R46-I 3100--M1-	Arcotronics	18x5mm p15mm
C5	2N2	Y1 - SAFETY CAP. DE1E3KX222M	Murata	12x4mm p10mm
C6	150N	X2 - FLM CAP - R46 KN 3150 - - 01 -	Arcotronics	26x6mm p22.5mm
C7	1000u - 25V	25V - ALUMINIUM ELCAP - ZL SERIES	Rubycon	Dia. 13mm
C8	1000u - 25V	25V - ALUMINIUM ELCAP - ZL SERIES	Rubycon	Dia. 13mm
C9	47u - 50V	50V - ALUMINIUM ELCAP - YXF SERIES	Rubycon	Dia. 6mm
C10	100u - 25V	25V - ALUMINIUM ELCAP - YXF SERIES	Rubycon	Dia. 6mm
C11	47u - 50V	50V - ALUMINIUM ELCAP - YXF SERIES	Rubycon	Dia. 6mm
C12	1N0	200V CERCAP - GENERAL PURPOSE	AVX	1206
C13	22N	50V CERCAP - GENERAL PURPOSE	AVX	0805
C14	2N2	50V CERCAP - GENERAL PURPOSE	AVX	0805
C16	2N2	50V CERCAP - GENERAL PURPOSE	AVX	0805
C17	100N	50V CERCAP - GENERAL PURPOSE	AVX	0805
C18	100N	50V CERCAP - GENERAL PURPOSE	AVX	1206
C19	100N	50V CERCAP - GENERAL PURPOSE	AVX	1206
C20	330pF	50V CERCAP - GENERAL PURPOSE	AVX	1206
C21	470N	50V CERCAP - GENERAL PURPOSE	AVX	0805
C22	330pF	50V CERCAP - GENERAL PURPOSE	AVX	1206
C23	2N2	50V CERCAP - GENERAL PURPOSE	AVX	1206
C26	1N0	50V CERCAP - GENERAL PURPOSE	AVX	1206
C27	100N	50V CERCAP - GENERAL PURPOSE	AVX	0805
C28	10N	50V CERCAP - GENERAL PURPOSE	AVX	1206
C29	100N	50V CERCAP - GENERAL PURPOSE	AVX	0805
C30	47pF	50V CERCAP - GENERAL PURPOSE	AVX	1206
D1	GBU4J	SINGLE PHASE BRIDGE RECTIFIER	VISHAY	GBU STYLE
D2	STPS20H100CFP	HV POWER SCHOTTKY RECTIFIER	STMicroelectronics	TO - 220FP
D3	STPS20H100CFP	HV POWER SCHOTTKY RECTIFIER	STMicroelectronics	TO - 220FP
D4	1.5KE300A	TRANSIL	STMicroelectronics	DO-201
D5	S1M	HIGH VOLTAGE RECTIFIER	VISHAY	SMA

Des.	Part type/ part value	Description	Supplier	Case
D6	BZV55-B18	ZENER DIODE	PHILIPS	SOD-80
D7	S07M	HIGH VOLTAGE DIODE	VISHAY	SMF DO-219AB
D10	LL4148	FAST SWITCHING DIODE	VISHAY	SOD-80
D12	STTH102A	FAST SWITCHING DIODE	STMicroelectronics	SMA
D13	S07M	HIGH VOLTAGE DIODE	VISHAY	SMF D0-219AB
D14	LL4148	FAST SWITCHING DIODE	VISHAY	SOD-80
F1	392/TE05 - 4A	FUSE T4A - TIME DELAY	LITTELFUSE	DWG
HS1	HEAT-SINK	BRIDGE RECT. AND MOSFET HEAT-SINK	-	DWG
HS2	HEAT-SINK	OUTPUT RECTIFIERS HEAT-SINK	-	DWG
J1	MKDS 1,5/ 2-5.08	screw conn., pitch 5.08 mm - 2 w.	Phoenix Contact	DWG
J2	MKDS 1,5/ 2-3.81	screw conn., pitch 3.81 mm - 2 w.	Phoenix Contact	DWG
L1	HF2826-203Y1R5-T01	INPUT EMI FILTER	TDK	DWG
L2	1071.0083	1.1uH-5A - RADIAL INDUCTOR	MAGNETICA	Dia. 9mm p5mm
Q1	STF7NM80	N-CHANNEL POWER MOSFET	STMicroelectronics	TO-220FP
Q2	BC847C	NPN SMALL SIGNAL BJT	ZETEX	SOT-23
Q3	BC847C	NPN SMALL SIGNAL BJT	ZETEX	SOT-23
Q4	BC847C	NPN SMALL SIGNAL BJT	ZETEX	SOT-23
R2	NTC 1R-S237	NTC RESISTOR P/N B57237S0100M000	EPCOS	12x4mm p10mm
R3	M57703	THERMISTOR - B57703M103G	EPCOS	DWG
R4	2K2	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R5	100K	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R6	3R9	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R7	3R9	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R8	4K7	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R9	1K8	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R10	3M9	SMD film res - 1/4W - 5% - 100ppm/°C	VISHAY	1206
R11	91K	SMD film res - 1/4W - 1% - 100ppm/°C	VISHAY	0805
R12	3M9	SMD film res - 1/4W - 1% - 100ppm/°C	VISHAY	1206
R14	33R	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R15	100K	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R16	0R33	MSR1 SMD FILM RES - 1W - 5% - 250ppm/°C	MEGGIT	2512
R17	470R	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R19	2K7	SMD film res - 1/4W - 1% - 100ppm/°C	VISHAY	1206
R20	680K	SMD film res - 1/4W - 1% - 100ppm/°C	VISHAY	1206
R21	180K	SMD film res - 1/8W - 1% - 100ppm/°C	VISHAY	0805

<b>Des.</b>	<b>Part type/ part value</b>	<b>Description</b>	<b>Supplier</b>	<b>Case</b>
R23	12K	SMD film res - 1/8W - 1% - 100ppm/°C	VISHAY	0805
R24	6R8	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R25	10K	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R26	15K	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R28	1K0	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R29	22K	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R30	1K0	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R31	R015	MSR1 SMD FILM RES - 1W - 5% - 250ppm/°C	MEGGIT	2512
R32	12K	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R33	220K	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R35	39K	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R36	47K	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R37	24K	SMD film res - 1/8W - 1% - 100ppm/°C	VISHAY	0805
R38	4K7	SMD film res - 1/8W - 1% - 100ppm/°C	VISHAY	0805
R40	100K	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R41	2K2	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R42	1K	SMD film res - 1/4W - 5% - 250ppm/°C	VISHAY	1206
R43	3K9	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
R45	56K	SMD film res - 1/4W - 1% - 100ppm/°C	VISHAY	1206
R46	22R	SMD film res - 1/8W - 5% - 250ppm/°C	VISHAY	0805
T1	1972.0005	POWER TRANSFORMER	MAGNETICA	DWG
U1	SFH617A-4	OPTOCOUPLER	INFINEON	DIP-4
U2	L6566B	MULTI-MODE PWM CONTROLLER	STMicroelectronics	SO-16
U3	TSM1014AIST	LOW CONSUMPTION CC/CV CONTROLLER	STMicroelectronics	MiniSO-8