

Designator	Manufacturer Part Number	Manufacturer	Comment	Description	Footprint	Quantity	Resistance	Capacitance
OPN			OPN- SECO- NCP51530HB-GEVB		OPN-SECO- NCP51530HB-GEVB	1		
C4	C0805C104J5RACTU	Kemet	C0805C104J5RAC780	CAP CER 100nF 50V X7R 0805	CAPC2013X145X50M L20T25	1		100nF
C1	C1206C104K2RACTU	KEMET	CAP CER 100n 200V 1206	Capacitor, C Series, 0.1 uF, 10%, X7R, 200 V, 1206 [3216 Metric]	CAPC3216X180X20M L20	1		100nF
C2	C1206C225K5RAC	KEMET	C1206C225K5RAC	Cap Ceramic 2.2uF 50V X7R 10% SMD 1206 125°C Bulk	CAPC3216X180X20LL 20	1		2.2uF
C5, C6	C0805C222J5RACTU	KEMET	C0805C222J5RACTU	MLCC - SMD/SMT 50volts 2.2nF X7R 5%	CAPC2013X145X50M L20T25	2		2.2nF
J1, J2	1430-1	Keystone Electronics	1430-1	Jumper TH 5.08mm	Jumper 5.08mm	2		
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14	5001	Keystone Electronics	5001	TH Test point (2.54mm dia)	TH Test point	14		
D5, D6	SBAS16HT1G	On Semiconductor	BAS16HT1G	Switching Diode, 2- Pin SOD-323, Pb- Free, Tape and Reel	ONSC-SOD-323-2-477 02_V	2		
D2	NRVUA160VT3G	ON Semiconductor	NRVUA160	Ultrafast power rectifier 600V	SMA	1		
D3, D4	BAT54T1G	ON Semiconductor	BAT54T	DIODE SCHOTTKY 30V 200MA SOD123	ONSC-SOD-123HE-2- 425-04_V	2		10pF
IC2	NCP51530BMNTWG	ON Semiconductor	NCP51530	High and Low side gate driver 700V 3.5/3 A	DFN10 4x4	1		
Q1, Q2	NVTF55C453NLWFTAG	ON Semiconductor	NVTF55C453NL	Single, N-Channel, 40V, 3.1mOhm, 107A	WDFN8 3.3x3.3	2		
Q3, Q4	NVMF56H800NL1G	ON Semiconductor	NVMF56H800NL	Single, N-Channel, 80V, 1.9mOhm, 224A	ONSC-DFN-5- 488AA_V	2		
X20, X21	FWS-01-01-T-S	Samtec	1x1 pin header	1x1 male pin header .19mm overall length. 11mm contact length	1x1 pin header	2		
R2, R3, R21	SMM02040C2008FB300	Vishay	SMM02040C2008FB 300	Res Thin Film 0204(1406) 2 Ohm 1% 1/4W ±50ppm/°C Conformal Melf SMD Blister T/R	RESC3216X89X51LL2 5T25	3	2R	
R5, R6, R9, R23	CRCW080522K0JNEAIF	Vishay	CRCW080522K0JNEA IF	Res Thick Film 0805 22K Ohm 5% 1/8W ±200ppm/°C Molded SMD Paper T/R	RESC2013X70X40LL2 0T20	4	22kR	
R11, R13	CRCW080556R0FKEA	Vishay	CRCW080556R0FKEA	Res Thick Film 0805 56 Ohm 1% 1/8W ±100ppm/°C Molded SMD SMD Paper T/R	RESC2013X70X40LL2 0T20	2	56R	
R4, R8	CRCW08056R80JNEA	Vishay Dale	6R8 0805	RES SMD 6.8 OHM 5% 1/8W 0805	RESC2013X70X40NL2 0T20	2	6.8R	
R12, R14, R15, R16, R17, R18	CRCW06030000Z0EB	Vishay Dale	0R 0603	Res Thick Film 0603 0 Ohm Molded SMD Automotive Paper T/R	603	6	0mR	
X1	61300311121	Würth Electronics	61300311121	Header 3x1 2.54mm	3x1 male header PCB connector	1		
X4	61300821121	Würth Electronics	61300821121	Conn header 4x2 2.54mm	4x2 PCB connector	1		
C7	CC0805KKX7R8BB225	Yageo	2.2u 25V X7R 0805	CAP CER 2.2u 25V 0805	CAPC2013X145X50M L20T25	1		2.2uF