Comment	Description	Designator	Footprint	LibRef	Quantity
Würth Elektronik	Series 1377 - 5.00 mm Horizontal Entry with Pressure Clamp WR-		PCB- a2bba722b4u85altew9		
691137710002	Pressure Clamp WR- TBL, 2 pin	+ B -, GND	g2bho722h4u85oltew9 j-1	691137710002	2
BYPASS	KEYSTONE 5002 Series:-	SV, 12V, BS, BS + SV, BYPASS, BYPASS CURR, CURR SENSE, GND, LIGHT SENSE, THERM MUX OUT, VOLT SENSE	PCB- 6rf74k5lqbtmzvabbodp- 1	5002	11
TE Connectivity 5- 146281-2	Header; Breakaway; 0.100 in.; PC Board; Single; 2; 0.025 in.; 0.12 in.; 3 A	SV ENABLE, EXTERNAL PWR, VIN ENABLE	PCB- angfy19quc8nc8nc7d0 m-1	5-146281-2	3
BLUE	2.0x1.2mm Low Current Green	ACTIVE	PCB- dnef8j46jbprf6b6erh1- 1	APT2012LZGCK	1
Keystone Electronics	KEYSTONE 5002		PCB- 6rf74k5lqbtmzvabbodp-		
5002 RED	Series:- 2.0x1.2mm Low Current Red	B4, GATE BYPASS	1 PCB- dnef8j46jbprf6b6erh1- 1	S002 APT2012LSECK/J3-PRV	1
4.7uF	Cap Ceramic 4.7uF 6.3V XSR 10% SMD 0603 85°C Paper T/R	C1	PCB- aplbgutxmqgu2769poz c-1	JMK107BJ475KA-T	
10uF	WX Series 10 uF 16 V 85°C Ø3 x 5.4 mm SMT Chip Aluminum Electrolytic Cap	C	3mm Dia SMD Cap	UWX1C100MCL2GB	
lour	0603 0.1 uF 25 V ±10 % Tolerance X7R SMT	-	PCR-	OWATCHOOMCEZGB	
0.1uF	Multilayer Ceramic Capacitor	C3, C8	fvggjhlky4an5us2gvhu- 1 PCR-	CC0603KRX7R8BB104	2
1uF	Cap Ceramic 1uF 50V X5R 10% SMD 0805 85°C Embossed T/R	C4	byo5il7f8wp7b7f3c12u- 1	UMK212BJ105KG-T	,
330nF	CAP CER 0.33UF 50V 10% X8L 0805	cs	CAPC2013X140X45LL15T 25	GCM21BL81H334KA56L	1
0.1uF	CAP CER 0.1UF 50V 10% X7R 0805	C6	CAPC2013X94X50LL20T2 5	08055C104KAZ2A	1
0.18uF	CAP CER 0.18UF 10V 10% X7R 0603	C7	CAPC1608X90X35LL15T1 5 PCB-	0603ZC184KAT2A	1
GRN	2.0x1.2mm Low Current Green	CURR., VOLT SENSE	dnef8j46jbprf6b6erh1- 1	APT2012LZGCK	2
	Res Cermet Trimmer 2M Ohm 10% 1/2W 25(Elec)Turn 2.19mm (9.53 X 4.83 X 11.55mm)		PCB- hse4uua1fjcnkyhyx9qc-		
2M	Pin Thru-Hole Tube Inductor Power Chip Shielded Wirewound	GAIN ADJ	1	3296W-1-205LF	1
10µН	10uH 20% 1MHz Ferrite 1.2A 0.2880hm DCR 1212 T/R	L1	PCB- vewda3j484q4i4ft994d- 1	LQH3NPN100MJRL	1
ARDUINO NANO 3.0	Arduino Nano 3.0 KK® 254 Solid Header,	NANO	PCBComponent_1	ARDUINO NANO 3.0	1
	Right Angle, with Friction Lock, 2 Circuits.		PCB- fbv082iavlitmssgdmwr-		
Pin 1 to GND	lin (Sn) Plating	PHOTORES	1	22-05-3021	1
20k	Pot	PHOTORES ADJ	9c9st4rikhlhcybvfjyu-1 PCB-	3296Y-1-203LF	1
SYM-837447-1	MOSFET P-CH 55V 31A DPAK Res Thin Film 0603 100K	Q1	5orkzbd4xoofe4n7g14x- 1	IRFR5305TRPBF	1
100k	Res Thin Film 0603 100K Ohm 0.1% 1/10W 25ppm/C Molded SMD SMD Paper T/R	R1, R2, R5, R6, R8, R10	RESC1608X55X25ML10T 15	RT0603BRD07100KL	6
	100 mOhms ±1% 0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Automotive AEC- Q200, Current Sense, Moisture Resistant,				
0.1 Ohm	Pulse Withstanding Metal Element	R3	RESC3216X89X51NL25T 25	WSL1206R1000FEA	1
3.9k	Thick Film Resistors - SMD 0603 3.9Kohms 5% Tol	R4	RESC1608X55X30ML15T	ERJ-3GEYJ392V	,
	Thick Film Resistors - SMD 3/4watt ZERO	R7	RESC3225X60X45LL20T2	CRCW12100000Z0EAHP	
0 Ohm	ohm Jumper Thin Film Resistors - SMD 1/10W 68K ohm	K/	RESC1608X55X25LL10T1		'
68k	.1% 25ppm RC Series 0603 0.1 W 0	R9, R11	5	RT0603BRD0768KL	2
0 Ohm	O Jumper Surface Mount Thick Film Chip Resistor	R12, R13, R14	PCB- z4znfsbnblvo2vsusio9- 1	RC0603JR-070RL	3
	Thick Film Resistors - SMD 0603 1.5Kohms 5%		RESC1608X55X30LL15T1		
1.5k	Tol RC Series 0603 0.1 W 2 MOhms 1% ±100 ppm/°C SMT Thick Film	R15, R16, R17	S	ERJ-3GEVI152V	3
2M	Chip Resistor RES SMD 10K OHM 1%	R18	R0603_A PCB- 4abppfb21vtaf8x2o3vd-	RC0603FR-072ML	1
10k	1/4W 0603 Res Thick Film 0603 1.5K Ohm 1% 0.25W(1/4W)	R19, R20	1 1	CRCW060310K0FKEAHP	2
1.5k	J100ppm/C Molded SMD Automotive Punched T/R Res Thick Film 0603 1K	R21	PCB- 9cf7z3ce0dktpf6ltksy-1	ERJ-PA3F1501V	1
1k	Ohm 1% 1/10W ±100ppm/°C Molded SMD SMD Paper Tape on Plastic Reel	R22	CAPC1608X60X35NL10T	CR0603-FX-1001ELF	1
22k	Thin Film Resistors 1/10W 22K ohm .1% 25ppm	R24, R25, R26, R27, R28	RESC1608X55X25LL10T1 5	RT0603BRD0722KL	5
Low Side	KK® 254 Solid Header, Right Angle, with Friction Lock, 2 Circuits, Tin (Sn) Plating	SHUNTLS	PCB- fbv082iavlitmssgdmwr- 1	22-05-3021	1
	Conn Socket Strip SKT 10 POS 2.54mm Solder		PCB-		
Shrouded IDC, 10 way	RA Thru-Hole Boost Voltage Converter with 0.7 to	THERM	6gyt9jg7hir1kur10t9z-1	302-R101	1
	5.5 V Input and 1.8 to 5.5 V Output, -40 to 85 degC, 6-Pin SC70 (DCK), Green (RoHS & no		PCB - cf8mw4cww6fq2gaq6cc		
TPS61220DCK6	Sb/Br)	U1	u-1	TPS61220DCKR	1
INA180A1	26V, Low- or High-Side Voltage Output Current Sense Amplifier 5-SOT-23 -40 to 125	U2	SOT23-5_D	INA180A1IDBVR	,
CMP-0055-01337-3	Low Power Single Op Amp, 5-pin SOT-23	U3, U4	MF0SA_L	CMP-0055-01337-3	
	Positive Voltage Regulator, 12V, 3-Pin TO-220		PCB-		
L7812CV	TO-220 1 MHz, Low-Power Operational Amplifier, 5-Pin SOT-23, Industrial	us	ly41sd8ny0lgaceleunx-1	L-612CV	1
MCP6001T-I/OT	5-Pin SOT-23, Industrial Temperature, Tape and Reel	U6	SOT-23-OTS_L	MCP6001T-I/OT	
CD4051BE	CD4051BE MULTIPLEXER		PCB-wxkmxky2o49f0ip7t		







