Comment	Description	Designator	Footprint	LibRef	Quantity
	Series 1377 - 5.00 mm Horizontal Entry with				, a a y
CMP- e1e12c58bed83e26-3	Pressure Clamp WR- TBL, 2 pin	+ B -, GND	PCBComponent_1	CMP- e1e12c58bed83e26-3	1
		SV, 12V, BS, BS + SV, RVPASS RVPASS CURR			· '
BYPASS	KEYSTONE 5002 Series:-	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, VIN ENABLE	PCB- angfy19quc8nc8nc7d0 m-1	5-146281-2	
Keystone Electronics 5002	KEYSTONE 5002 Series:-	B4, GATE	PCB- 6rf74kSlqbtmzvabbodp- 1	5002	2
RED	2.0x1.2mm Low Current Red	BYPASS	PCB- dnef8j46jbprf6b6erh1- 1	APT2012LSECK/J3-PRV	1
4.7uF	Cap Ceramic 4.7uF 6.3V XSR 10% SMD 0603 85°C Paper T/R WX Series 10 uF 16 V	C1	PCB- aplbgutxmqgu2769poz c-1	JMK107BJ475KA-T	1
10uF	85°C Ø3 x 5.4 mm SMT Chip Aluminum Electrolytic Cap	C2	3mm Dia SMD Cap	UWX1C100MCL2GB	1
0.1uF	0603 0.1 uF 25 V ±10 % Tolerance X7R SMT Multilayer Ceramic Capacitor	C3, C8	PCB- fvggjhlky4an5us2gvhu-	CC0603KRX7R8BB104	
1uF	Cap Ceramic 1uF 50V XSR 10% SMD 0805 85°C Embossed T/R	C4	PCB- byo5il7f8wp7b7f3c12u- 1	UMK212BJ105KG-T	1
33nF	Capacitor; Ceramic; Cap; .330uf ; Tol+10%; Smd; Vol-Rtg 50v; X7r	cs	CAPC320X160X100L50L	C1206C334K5RACTU	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	0603ZC184KAT2A	1
	2.0x1.2mm Low Current		PCB- dnef8j46jbprf6b6erh1-		
BLUE	Green 2.0x1.2mm Low Current	CURR SENSE	1 PCB- dnef8j46jbprf6b6erh1-	APT2012LZGCK	1
GRN	Green Res Cermet Trimmer 2M Ohm 10% 1/2W	CURR., VOLT SENSE	1	APT2012LZGCK	2
2M	25(Elec)Turn 2.19mm (9.53 X 4.83 X 11.55mm) Pin Thru-Hole Tube Inductor Power Chip	GAIN ADJ	PCB- hse4uua1fjcnkyhyx9qc- 1	3296W-1-205LF	1
	Shielded Wirewound 10uH 20% 1MHz Ferrite 1.2A 0.288Ohm DCR		PCB- vewda3j484q4i4ft994d-		
10µH ARDUINO NANO 3.0	1212 T/R Arduino Nano 3.0	L1 NANO	1 PCBComponent_1	LQH3NPN100MJRL ARDUINO NANO 3.0	1
omo mano su	VV® 254 Solid Header		PCB-		
Pin 1 to GND	Right Angle, with Friction Lock, 2 Circuits, Tin (Sn) Plating	PHOTORES	fbv082iavlitmssgdmwr- 1	22-05-3021	,
20k	Pot	PHOTORES ADJ	PCB- 9c9st4rikhlhcybvfjyu-1	3296Y-1-203LF	1
SYM-837447-1	MOSFET P-CH 55V 31A DPAK	Q1	PCB- Sorkzbd4xoofe4n7g14x- 1	IRFR5305TRPBF	
100k	Res Thin Film 0603 100K Ohm 0.1% 1/10W 2Sppm/C Molded SMD SMD Paper T/R	R1, R2, R5, R6, R8, R10	RESC1608X55X25ML10T	RT0603BRD07100KL	-
	100 mOhms ±1%	,,,,			,
	0.25W, 1/4W Chip Resistor 1206 (3216 Metric) Automotive AEC- Q200. Current Sense.				
0.1 Ohm	Moisture Resistant, Pulse Withstanding Metal Element	R3	RESC3216X89X51NL25T 25	WSL1206R1000FEA	
3.9k	Thick Film Resistors - SMD 0603 3.9Kohms 5% Tol Thick Film Resistors -	R4	RESC1608X55X30ML15T 15	ERJ-3GEYJ392V	1
0 Ohm	Thick Film Resistors - SMD 3/4watt ZERO ohm Jumper Thin Film Resistors -	R7	RESC3225X60X45LL20T2 0	CRCW12100000Z0EAHP	1
68k	SMD 1/10W 68K ohm .1% 25ppm	R9, R11	RESC1608X55X25LL10T1 5	RT0603BRD0768KL	1
	RC Series 0603 0.1 W 0 O Jumper Surface Mount Thick Film Chip		PCB- z4znfsbnblvo2vsusio9-		-
0 Ohm	Resistor Thick Film Resistors - SMD 0603 1.5Kohms 5%	R12, R13, R14 R15, R16, R17	RESC1608X55X30LL15T1	RC0603JR-070RL ERJ-3GEYJ152V	3
r.uk	Tol RC Series 0603 0.1 W 2 MOhms 1% ±100 ppm/°C SMT Thick Film	, N.10, K1/		C-3-30E Ø 152V	3
2M	Chip Resistor RES SMD 10K OHM 1%	R18	R0603_A PCB- 4abppfb21vtaf8x2o3vd-	RC0603FR-072ML	1
106		R19. R20			2
10k	1/4W 0603 Res Thick Film 0603 1.5K Ohm 1%	,	1	CRCW060310K0FKEAHP	
	Res Thick Film 0603 1.5K Ohm 1% 0.25W(1/4W))100ppm/C Molded SMD Automotive		PCB- 9rf7z3ce0dktnf6ltksv-1		
	Res Thick Film 0603 1.5K Ohm 1% 0.25W(1/4W) 1100ppm/C Molded SMD Automotive Punched T/R Res Thick Film 0603 1K Ohm 1% 1/10W	R21	9cf7z3ce0dktpf6ltksy-1		,
1.5k	Res Thick Film 0603 1.5K Ohm 1% 0.25W(1/4W) 1100ppm/C Molded SMD Automotive Punched T/R Res Thick Film 0603 1K Ohm 1% 1/10W ±100ppm/C Molded SMD SMD Paper Tape on Plastic Reel Thin Film Resistors		9cf7z3ce0dktpf6ltksy-1 CAPC1608X60X35NL10T 15		1
1.5k 1k	Res Thick Film 0603 1.5K Ohm 1% 0.25W(1/4W) 1100ppm/C Molded SMD Automotive Punched 1/R Res Thick Film 0603 1K Ohm 1% 1/10W 1100ppm/C Molded SMD SMD Paper Tape on Plastic Reel Thin Film Resistors 1/10W 2K ohm 1% 25ppm	R21	9cf7z3ce0dktpf6ltksy-1 CAPC1608X60X35NL10T	ERJ-PA3F1501V	1
1.5k 1k 22k	Res Thick Film 0603 1. SK Ohm 1% 0. 25W(1/4W) 100ppm/C Molded SMD Automotive Punched T/R Res Thick Film 0603 1K Ohm 1% 1/10 ppm/C Molded SMD SMD Paper Tape on Plastic Reel Thin Film Resistors 1/10W 22K ohm 1% Experime 1/6 Company KK® 254 Solid Header, Right Angle, with Ferritin I ock 2 Gravits	R21 R22 R24, R25, R26, R27, R28	9cf7z3ce0dktpf6ltksy-1 CAPC1608X60X35NL10T 15	ERJ-PA3F1501V CR0603-FX-1001ELF RT0603BRD0722KL	,
11.5k 1k 222k Low Side	Res Thick Film 0603 1.55 Chm 1% 1.55 Chm 1% 0.25 Wil (1/4W) 1000 pm/C Molded SMD Automotive Punched 17R Res Thick Film 0603 1K Ohm 1% 1/10W 1 100 pm/C Molded SMD More Paper on Plastic Reel Thin Film Resistors 1/10W 22K chm 1% EXP 254 Solid Header, Right Angle, with Friction Lock, 2. Circuits, Tin (Sn) Plating	R22 R24, R25, R26, R27, R28 SHUNTLS	9cf7z3ce0dktpf6lftksy-1 CAPC1608X60X3SNL10T 15 RESC1608X55X2SLL10T1 PCB- fbv082iavlitmssgdmwr-1 PCB-	ERJ-PA3F1501V CR0603-FX-1001ELF RT06038RD0722XL 22-05-3021	1
11.5k 1k 222k Low Side	Res Thick Film 6063 1.5K Ohm 1% 1.5K Ohm 1% 0.25W1(1/4W) 100ppm/C Molded SMD Automotive Panched 1/R Res Thick Film 6063 1k 0.000pm/C Molded SMD SMD Paper Tape on Plastic Real SMD Paper Tape On	R21 R22 R24, R25, R26, R27, R28	9cf7z3ce0diktpf6ltksy-1 CAPC1608X60X35NL10T 15 RESC1608X5SX2SLL10T1 5 PCB- fbx082iavlitmssgdmwr-1	ERJ-PA3F1501V CR0603-FX-1001ELF RT0603BRD0722KL	,
11.5k 1k 222k Low Side	Res Thick Film 6663 1.5K Ohm 1% 0.25W11/4W) 100ppm/C Molded SAID Automotive Punched 178 100ppm/C Molded SAID Automotive Punched 178 100ppm/C Molded SAID Automotive Punched 178 100ppm/C Molded SAID SAID 7000 179 100ppm/C Molded SAID SAID Paper Tape on Plastic Real Thin Film Resistors 1/10W 22K chan 1% 23ppm 1/10W 22K chan 1% 24ppm 1/10W 22K	R22 R24, R25, R26, R27, R28 SHUNTLS	9c7r2ca0dktpf6ltksy-1 CAPC1608K6X35NL10T1 RESC1608X5SX2SLL10T1 PCB- ths082iavlitmssgdmwr-1 PCB- jaiollyporbtzkuwivstky-1	ERJ-PA3F1501V CR0603-FX-1001ELF RT06038RD0722XL 22-05-3021	
1.5k 1k 22k Low Side Mates with 101-106	Res Thick Film 6603 1.5K Ohm 1% OLSWI(VLAW) IGO-pmc Modled IGO-pmc	R22 R24, R25, R26, R27, R28 SHUNTLS	9cf7z3ce0dktpf6lftksy-1 CAPC1608X60X3SNL10T 15 RESC1608X55X2SLL10T1 PCB- fbv082iavlitmssgdmwr-1 PCB-	ERJ-PA3F1501V CR0603-FX-1001ELF RT06038RD0722KL 22-05-3021	
1.5k 1k 22k Low Side Mates with 101-106	Res Thick Film 8003 1.5K Chm 1% OLSW/14WN) Mod Carbwill William 1.5K Chm 1% OLSW/14WN) Mod Carbwill William 1.5K Chm 1% OLSW/14WN) Mod Carbwill William 1.5K Chm 1.5K	R21 R22 R24, R25, R26, R27, R28 SHUNT LS THERM	9c07z3ceddiktpf6ltksy-1 CAPC1608x60x35Ni.10T 15 RESC1608x55x25iL10T1 5 PCB- th0x082avlitmssgdmwr-1 PCB- jxb19portbzkuwlostky-1 PCB- ctl8mw4cww6fq2asq6cc	ERJ-PA3F1501V CR0603-FX-1001ELF RT0603BRD0722XL 22-05-3021 302-R101	
11.5k 1k Low Side Mates with 101-106 TPS612200CX6	Res Thick Film 6003 1.5K Ohm 1% 0.25W/14W/) 0.45W/14W/) 0.45W/14W/	R21 R22 R24, R25, R26, R27, R28 SHUNT LS THERM	9c07z3ceddiktpf6ltksy-1 CAPC1608x60x35Ni.10T 15 RESC1608x55x25iL10T1 5 PCB- th0x082avlitmssgdmwr-1 PCB- jxb19portbzkuwlostky-1 PCB- ctl8mw4cww6fq2asq6cc	ERJ-PA3F1501V CR0603-FX-1001ELF RT0603BRD0722XL 22-05-3021 302-R101	
11.5k 1k 222k Low Side Motes with 101-106	Res Thick Film 8663 1 k3 Chm 1% L3 C	R21 R22 R24, R25, R26, R27, R28 SHUNTLS THERM	9cf7z3ceddktpf6ftkop-1 CAPC1608X60X35NL10T 15 RESC1608X55X25LL10T1 PCB- RESC1608X5X25LL10T1 FCB- RESC1608X5X25LL10T1 FCB- RESC1608X5X25LL10T1 FCB- RESC1608X5X25LL10T1 FCB- RESC1608X5X25LL10T1 FCB- CIBmu4cww6fq2gaq6cc U-1	ERJ-PA3F1501V CR0603-FX-1001ELF RT06038RD0722XL 22-05-3021 302-R101 TPS61220DCXR	
1.5k 1k 2.22k Low Side Mates with 101-106 TP561220DCK6 INA180A1 CMP-0055-01337-3	Res Thick Film 8663 1 1.8 Chm 1% 0.25 W/LWG	R21 R22 R24, R25, R26, R27, R28 SHUNTLS THERM U1 U2 U3, U4	9:0723ceodktpfl6tksy-1 CAPC1608xG0V35N110T 15 PCB- Thothol@2avitimssgdmwr-1 1. PCB- Thothol@2avitim	ERJ-PA3F1501V CR0603-FX-1001ELF RT06038RD0722KL 22-05-3021 302-R101 T9561220DCKR NA180A1IDBVR CMP-0055-01337-3	1
11.5k 1k Low Side Mates with 101-106 TPS612200CK6 INA180A1 CMP-0055-01337-3	See Thick Film 8663 1.5 KOhn 1% 1.5 KOHN 1	R21 R22 R24, R25, R26, R27, R28 SHUNT L5 THERM	9:0723ceddxpf6ftksy-1 CAPC1608x50x25x1.10T1 15 PCB. hobi022avitimssgdmwr-1 PCB. pbi04porhtzhuwivstky-1 PCB. cfflmw4cww6fq2gaq6cc u-1 SOT23-5_D Mf05A_L	ERJ-PA3F1501V CR0603-FX-1001ELF RT06038RD0722KL 22-05-3021 302-R101 T9561220DCKR NA180A1IDBVR CMP-0055-01337-3	
1.5k 1k 22k Low Side Mates with 101-106 TP561220DCK6	Res Thick Film 8063 1 1.5 K Chm 1% OL SWITHWAY COMMON TO A COMMON	R21 R22 R24, R25, R26, R27, R28 SHUNTLS THERM U1 U2 U3, U4	9:0723ceodktpfl6tksy-1 CAPC1608xG0V35N110T 15 PCB- Thothol@2avitimssgdmwr-1 1. PCB- Thothol@2avitim	ERJ-PA3F1501V CR0603-FX-1001ELF RT06038RD0722KL 22-05-3021 302-R101 T9561220DCKR NA180A1IDBVR CMP-0055-01337-3	1 1 1 1 2 2







