











# 1	Reference	Qty	Value	Part Number	Description	Manufacturer	Package	Tolerance	Voltage
1	C1,C2,C3,C4,C5	5	10u	GCM31CD71H106KE36F	10 ÂμF ±10% 50V Ceramic Capacitor X7T 1206 (3216 Metric)	Murata	1206	10%	50V
2	C6,C12,C13,C18	4	100n	C0805C104J5RAC7800	0.1 ÂμF ±5% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	Kemet	0805	5%	50V
3 (	27	1	10n	C0805C103F5GAC7800	10000 pF ±1% 50V Ceramic Capacitor COG, NPO 0805 (2012 Metric)	Kemet	0805	1%	50V
4	C8,C9,C10,C11,C14,C15,C16,C17,C19,C20,C21,C22,C23,C24,C30,C31	32	1u	CL21B105KBFNNNE	1 ÂμF ±10% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	Samsung Electro-Mechanics	0805	10%	50V
5	C25,C26,C27	3	1n	C0805C102J5GAC7800	1000 pF ±5% 50V Ceramic Capacitor COG, NPO 0805 (2012 Metric)	KEMET	0805	5%	50V
6	C28	1	360p	CC0805JRNPO9BN361	360 pF ±5% 50V Ceramic Capacitor COG, NPO 0805 (2012 Metric)	YAGEO	0805	5%	50V
7	C29,C32,C43	3	2.2n	CL21B222JBANNNC	2200 pF ±5% 50V Ceramic Capacitor X7R 0805 (2012 Metric)	Samsung Electro-Mechanics	0805	5%	50V
8	D1,D2	2	SMBJ18CA	SMBJ18CA	24.4V Clamp 24.6A Ipp Tvs Diode Surface Mount DO-214AA (SMBJ)	Littelfuse Inc.	SMB		
9 1	D3,D4	2	STPS2H100A	STPS2H100A	Diode 100 V 2A Surface Mount SMA (DO-214AC)	STMicroelectronics	SMA		100V 2
10	D5,D6,D8	3	LED_Green	APT3216LZGCK	Green 525nm LED Indication - Discrete 2.65V 1206	Kingbright	1206		2.65V/
11	1	1	1729131	1729131	PCB terminal block, nominal current: 13.5 A, rated voltage (III/2): 400 V,	Phoenix Contact	Connector		
12	2	1	796681-2	796681-2	2 Position Wire to Board Terminal Block Horizontal with Board 0.197" (5.00mm) Through Hole	TE Connectivity AMP Connectors	Connector		
13	1	1	L_Ferrite	RL181S-183J-RC	18 mH Shielded Drum Core, Wirewound Inductor 21 mA 170hm Max Radial, Vertical Cylinder	Bourns Inc.	Radial, Vertical Cylinder		
14	Q1,Q2	2	BC547CTA	BC547CTA	Bipolar (BJT) Transistor NPN 45 V 100 mA 300MHz 500 mW Through Hole TO-92-3	onsemi	TO-92-3		
15	R1,R2,R3	3	4.7k	RC0603FR-074K7L	RES 4.7K OHM 1% 1/10W 0603	YAGEO	0603	1%	
16	34	1	3310Y-001-202L	3310Y-001-202L	2k Ohm 1 Gang Linear Panel Mount Potentiometer None 1.0 Kierros Conductive Plastic 0.25W, 1/4W PC Pins	Bourns Inc.	Pot		
17	R5	1	0	RMCF1206ZT0R00	RES 0 OHM JUMPER 1/4W 1206	Stackpole Electronics Inc	1206		
18	R7,R11	2	22k	CRCW080522K0FKEAC	RES 22K OHM 1% 1/8W 0805	Vishay Dale	0805	1%	
19	38	1	3.3k	CRCW08053K30FKEAC	RES 3.3K OHM 1% 1/8W 0805	Vishay Dale	0805	1%	
20	39	1	2.2k	CRG0805F2K2	RES SMD 2.2K OHM 1% 1/8W 0805	TE Connectivity Passive Product	0805	1%	
21	R10,R13	2	220	CRG0805F220R	RES SMD 220 OHM 1% 1/8W 0805	TE Connectivity Passive Product	0805	1%	
22	R12,R19,R28,R29,R32	5	100k	ERA-6AEB104V	RES SMD 100K OHM 0.1% 1/8W 0805	Panasonic Electronic Components	0805	0.10%	
23	R14	1	35.7k	ERA-6AEB3572V	RES SMD 35.7K OHM 0.1% 1/8W 0805	Panasonic Electronic Components	0805	0.10%	
24	R15,R17,R22,R23,R30,R31,R34,R35,R36,R38,R42,R43,R44,R45,R46	15	10k	RG2012P-103-B-T5	RES SMD 10K OHM 0.1% 1/8W 0805	Susumu	0805	0.10%	
25	R16	1	1Meg	RT0805BRD071ML	RES SMD 1M OHM 0.1% 1/8W 0805	YAGEO	0805	0.10%	
26	R18	1	374k	YAGEO	RES SMD 374K OHM 0.1% 1/8W 0805	YAGEO	0805	0.10%	
27	R20,R21,R39	3	5.1k	RC0805FR-075K1L	RES 5.1K OHM 1% 1/8W 0805	YAGEO	0805	1%	
28	324	1	30k	CRG0805F30K	RES SMD 30K OHM 1% 1/8W 0805	TE Connectivity Passive Product	0805	1%	
29	R25,R41	2	3310Y-001-104L	3310Y-001-104L	100k Ohm 1 Gang Linear Panel Mount Potentiometer None 1.0 Kierros Conductive Plastic 0.25W, 1/4W PC Pins	Bourns Inc.	Pot		
30	R27	1	15k	CRG0805F15K	RES SMD 15K OHM 1% 1/8W 0805	TE Connectivity Passive Product	0805	1%	
31	333	1	560k	RC0805FR-07560KL	RES SMD 100K OHM 0.1% 1/8W 0805	YAGEO	0805	1%	
32	R37	1	56k	RC0805FR-0756KL	RES 56K OHM 1% 1/8W 0805	YAGEO	0805	1%	
33	340	1	390k	ERJ-6ENF3903V	RES SMD 390K OHM 1% 1/8W 0805	Panasonic Electronic Components	0805	1%	
34	R47,R48,R49,R50	4	470	RC0805FR-07470RL	RES 470 OHM 1% 1/8W 0805	YAGEO	0805	1%	
	J1,U2,U3,U4,U5,U8,U9,U10,U11,U12,U14,U15,U16	13		TL081HIDR	J-FET Amplifier 1 Circuit Push-Pull 8-SOIC	Texas Instruments	8-SOIC		
	J6,U7,U13	3		AD633JRZ-R7	Analog Multiplier 4-Quadrant 8-SOIC	Analog Devices Inc.	8-SOIC		

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