

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C1	1	1uF	C3216X7R2A105K160AA	TDK	CAP, CERM, 1 uF, 100 V, +/- 10%, X7R, 1206	1206
C2, C6, C7	3	22uF	GRM31CR71A226KE15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 10%, X7R, 1206	1206
C3, C18	2	4.7uF	C5750X7R2A475K230KA	TDK	CAP, CERM, 4.7 uF, 100 V, +/- 10%, X7R,	
C4, C19	2	0.47uF	C3216X7R2A474K160AA	TDK	CAP, CERM, 0.47 uF, 100 V, +/- 10%, X7R, 1206	1206
C5	1	0.47uF	CGA3E3X7R1H474K080AE	TDK	CAP, CERM, 0.47 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
C8, C21	2	1uF	GCM188R71C105KA64D	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
C9	1	1uF	C0603C105K4RACAUTO	Kemet	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
C10	1	0.1uF	C0603C104J5RACTU	Kemet	CAP, CERM, 0.1 uF, 50 V, +/- 5%, X7R, 0603	603
C11, C13, C14, C22, C36	5	0.01uF	C0603C103K4RACTU	Kemet	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0603	603
C16, C20, C29	3	10pF	0603ZC100KAT2A	AVX	CAP, CERM, 10 pF, 10 V, +/- 10%, X7R, 0603	603
C17	1	2.2uF	C1608X7R1A225K080AC	TDK	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7R, 0603	603
C24, C25, C28, C37	4	1uF	CL10B105M08NNWC	Samsung	CAP, CERM, 1 uF, 16 V, +/- 20%, X7R, 0603	603
C27	1	0.1uF	GCM188R71E104KA57D	MuRata	CAP, CERM, 0.1 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
C30, C33	2	0.1uF	CL10B104KO8NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0603	603
C31, C32	2	22uF	GRM21BZ71A226ME15L	MuRata	CAP, CERM, 22 uF, 10 V, +/- 20%, X7R, 0805	805
D1, D8, D9, D13	4	3.6V	MMSZ5227BS-7-F	Diodes Inc.	Diode, Zener, 3.6 V, 200 mW, SOD-323	SOD-323
D2, D5	2	Red	150060RS75000	Würth Elektronik	LED, Red, SMD	LED_0603
D4, D7	2	60V	SMBJ60A-13-F	Diodes Inc.	Diode, TVS, Uni, 60 V, 96.8 Vc, SMB	SMB
D6	1	40V	BAS40W-7-F	Diodes Inc.	Diode, Schottky, 40 V, 0.2 A, SOT-323	SOT-323
D10	1	100V	SS110-TP	Micro Commercial Component	Diode, Schottky, 100 V, 1 A, SMA	SMA
FID1, FID2, FID3	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
J1	1		PBC08DAAN	Sullins Connector Solutions	Header, 100mil, 8x2, Gold, TH	PBC08DAAN
J2	1		1725672	Phoenix Contact	Terminal Block, 4x1, 2.54 mm, Green, TH	Terminal Block, 4x1, 2.54 mm, TH
L1	1	10uH	744042100	Würth Elektronik	Inductor, Shielded Drum Core, Ferrite, 10 uH, 1 A, 0.12 ohm, SMD	WE-TPC-M1
L2	1	15uH	74437349150	Würth Elektronik	Inductor, Shielded Drum Core, Powdered Iron, 15 uH, 2.75 A, 0.092 ohm, SMD	7.30x4.80x6.60mm
Q1	1	100V	CSD19538Q2	Texas Instruments	MOSFET, N-CH, 100 V, 4.5 A, DQK0006C (WSON-6)	DQK0006C
R1, R3	2	680	CRCW0603680RJNEA	Vishay-Dale	RES, 680, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R2, R9, R33, R37, R41, R42, R43, R44	8	43.2k	CRCW060343K2FKEA	Vishay-Dale	RES, 43.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R5, R8, R12, R24, R31	5	100k	CRCW0603100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R7	1	11.8k	CRCW060311K8FKEA	Vishay-Dale	RES, 11.8 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R10	1	100k	RR0816P-104-D	Susumu Co Ltd	RES, 100 k, .5%, .0625 W, 0603	603
R13, R14, R18, R20, R27, R29, R39, R40	8	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	603
R22	1	105k	CRCW0603105KFKEA	Vishay-Dale	RES, 105 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R23	1	40.2k	CRCW060340K2FKEA	Vishay-Dale	RES, 40.2 k, 1%, 0.1 W, 0603	603
R25	1	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	603
R30	1	24.9k	CRCW060324K9FKEA	Vishay-Dale	RES, 24.9 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
R34	1	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	603

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R38	1	2k	CRCW060343K2FKEA	Vishay-Dale	RES, 43.2 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	603
TP1, TP2, TP3, TP5, TP6, TP9, TP10, TP14, TP19, TP_3V3_1B	10		5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
U1	1		LMR36015ARNXT	Texas Instruments	65-V 1.5-A Synchronous Step-Down Converter, RNX0012B (VQFN-HR-12)	RNX0012B
U2	1		TPS3702CX33DDCR	Texas Instruments	High-Accuracy, Fixed-Threshold OV/UV Monitor, DDC0006A (SOT-23-T-6)	DDC0006A
U3	1		TLV6002IDGKR	Texas Instruments	1-MHz, Low-Power Operational Amplifier for Cost-Sensitive Systems, DGK0008A (VSSOP-8)	DGK0008A
U4	1		TPS2400DBVR	Texas Instruments	Overvoltage/Undervoltage Protection IC in SOT-23-5, DBV0005A (SOT-23-5)	DBV0005A
U5	1		LMR36520ADDA	Texas Instruments	SIMPLE SWITCHER® 4.2-V to 65-V, 2-A Synchronous Step-down Converter, DDA0008J (HSOIC-8)	DDA0008J
U6	1		TPS3703A4330DSERQ1	Texas Instruments	Overvoltage and Undervoltage Reset IC With Time Delay and Manual Reset, DSE0006A (WSON-6)	DSE0006A
U7	1		TPS26600RHFR	Texas Instruments	4.5V - 55V, 2A Industrial eFuse with Integrated Reverse Input Polarity Protection, RHF0024A (VQFN-24)	RHF0024A
U8	1		TPS7A1633DGNR	Texas Instruments	60V, 5uA IQ Low-Dropout 100mA Linear Regulator with Enable and Power Good, DGN0008C (VSSOP-8)	DGN0008C

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