

Change in menu Project

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
C1, C2	2	1000uF	CAP, AL, 1000 µF, 25 V, +/- 20%, 0.018 ohm, TH	TH, 2-Leads, Dia 10mm, Pin Spacing 5mm	25ZLH1000MEFC10X23	Rubycon		
C3, C4	2	10uF	CAP, CERM, 10 µF, 63 V, +/- 10%, X7R, 1210	1210	GRM32ER71J106KA12L	MuRata		
C5, C9, C12, C22	4	10uF	CAP, CERM, 10 µF, 25 V, +/- 10%, X7R, 1210	1210	12103C106KAT2A	AVX		
C6, C7	2	560uF	CAP, AL, 560 µF, 50 V, +/- 20%, 0.023 ohm, TH	D12.5xL25mm	50ZL560MEFC12.5X25	Rubycon		
C8, C15	2	3.3uF	CAP, CERM, 3.3 µF, 50 V, +/- 10%, X7R, 1206	1206	C3216X7R1H335K160AC	TDK		
C10, C13, C20, C23	4	2200pF	CAP, CERM, 2200 pF, 50 V, +/- 10%, X7R, 0603	0603	C0603C222K5RAC	Kemet		
C11, C14	2	4.7uF	CAP, CERM, 4.7 µF, 25 V, +/- 20%, X5R, 0805	0805	GRM21BR61E475MA12L	MuRata		
C16	1	0.01uF	CAP, CERM, 0.01 µF, 50 V, +/- 10%, X7R, 0603	0603	C1608X7R1H103K	TDK		
C17	1	1uF	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603	C0603C105K3RACTU	Kemet		
C18	1	100pF	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	C1608C0G1H101J	TDK		
C19	1	0.47uF	CAP, CERM, 0.47 µF, 25 V, +/- 10%, X5R, 0805	0805	08053D474KAT2A	AVX		
C21	1	1000pF	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603	C1608C0G1H102J	TDK		
D1	1	75V	Diode, Ultrafast, 75 V, 0.3 A, SOT-23	SOT-23	BAS16-7-F	Diodes Inc.		
D2	1	open	Diode, Ultrafast, 75 V, 0.3 A, SOT-23	SOT-23	BAS16-7-F	Diodes Inc.		
D3, D6	2	60V	Diode, Schottky, 60 V, 20 A, AEC-Q101, DDDPAK	DDPAK	V5-48CTQ060SPBF	Vishay-Semiconductor		
D4	1	10V	Diode, Zener, 10 V, 225 mW, SOT-23	SOT-23	MMBZ5240BLT1G	ON Semiconductor		
D5	1	6.8V	Diode, Zener, 6.8 V, 225 mW, SOT-23	SOT-23	MMBZ5235BLT1G	ON Semiconductor		
J1	1		Terminal Block, 30A, 9.52mm (.375) Pitch, 2-Pos, TH	19.62x21.5x12.5mm	OSTT7022150	On-Shore Technology		
J2	1		Terminal Block, 6A, 3.5mm Pitch, 2-Pos, TH	7.0x8.2x6.5mm	ED555/2DS	On-Shore Technology		
L1	1	470nH	Inductor, Shielded Drum Core, Powdered Iron, 470 nH, 41 A, 0.001 ohm, SMD	IHLPL-5050FD	IHLPL5050FDERR47M01	Vishay-Dale		
L2, L3, L4, L5	4	3.3uH	Inductor, Shielded Drum Core, Powdered Iron, 3.3 µH, 18 A, 0.0057 ohm, SMD	IHLPL-5050FD	IHLPL5050FDER3R3M01	Vishay-Dale		
Q1	1	40 V	Transistor, NPN, 40 V, 1 A, SOT-223	SOT-223	PZT2222A	Fairchild Semiconductor		
Q2, Q3, Q5, Q6	4	60V	MOSFET, N-CH, 60 V, 50 A, SON 5x6mm	SON 5x6mm	CSD18534Q5A	Texas Instruments		None
Q4	1	60V	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23	2N7002-7-F	Diodes Inc.		None
R1, R2	2	4.99k	RES, 4.99 k, 0.1%, 0.063 W, 0603	0603	CPF0603B4K99E	TE Connectivity		
R3	1	16.2k	RES, 16.2 k, 1%, 0.1 W, 0603	0603	CRCW060316K2FKEA	Vishay-Dale		
R4	1	7.50k	RES, 7.50 k, 1%, 0.1 W, 0603	0603	CRCW06037K50FKEA	Vishay-Dale		
R5, R13	2	2.00k	RES, 2.00 k, 1%, 0.1 W, 0603	0603	CRCW06032K00FKEA	Vishay-Dale		
R6, R14, R20, R33	4	200	RES, 200, 1%, 0.1 W, 0603	0603	CRCW0603200RFKEA	Vishay-Dale		
R7, R8, R15, R16, R23, R24, R34, R35	8	0.01	RES, 0.01, 1%, 0.5 W, 1206	1206	CSR1206FK10L0	Stackpole Electronics Inc		
R9	1	133k	RES, 133 k, 1%, 0.1 W, 0603	0603	CRCW0603133KFKEA	Vishay-Dale		
R10, R19, R26, R27, R28, R29	6	10.0k	RES, 10.0 k, 1%, 0.1 W, 0603	0603	CRCW060310K0FKEA	Vishay-Dale		
R11	1	8.66k	RES, 8.66 k, 1%, 0.1 W, 0603	0603	CRCW06038K66FKEA	Vishay-Dale		
R12	1	2.49k	RES, 2.49 k, 1%, 0.1 W, 0603	0603	CRCW06032K49FKEA	Vishay-Dale		
R17	1	6.19k	RES, 6.19 k, 1%, 0.1 W, 0603	0603	CRCW06036K19FKEA	Vishay-Dale		
R18	1	10.0	RES, 10.0, 1%, 0.1 W, 0603	0603	CRCW060310R0FKEA	Vishay-Dale		
R21	1	49.9k	RES, 49.9 k, 1%, 0.1 W, 0603	0603	CRCW060349K9FKEA	Vishay-Dale		
R22	1	93.1k	RES, 93.1 k, 1%, 0.1 W, 0603	0603	CRCW060393K1FKEA	Vishay-Dale		
R25	1	20.0k	RES, 20.0 k, 1%, 0.1 W, 0603	0603	CRCW060320K0FKEA	Vishay-Dale		
R30	1	49.9	RES, 49.9, 1%, 0.1 W, 0603	0603	CRCW060349R9FKEA	Vishay-Dale		
R31	1	43.2k	RES, 43.2 k, 1%, 0.1 W, 0603	0603	CRCW060343K2FKEA	Vishay-Dale		
R32	1	806	RES, 806, 1%, 0.1 W, 0603	0603	CRCW0603806RFKEA	Vishay-Dale		
T1, T2	2	50A	Terminal 50A Lug	CB35-36-CY	CB35-36-CY	Panduit		
TP1, TP3, TP4, TP6, TP7, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16	13	Red	Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone		
TP2, TP5, TP8	3	Black	Test Point, Miniature, Black, TH	Black Miniature Testpoint	5001	Keystone		
U1	1		LinCMOS Dual Differential Comparators, D0008A	D0008A	TLC372CDR	Texas Instruments	TLC372CD	Texas Instruments
U2	1		Adjustable Precision Shunt Regulator, 34 ppm / degC, 100 mA, 0 to 70 degC, 3-pin SOT-23 (DBZ), Green (RoHS & no Sb/Br)	DBZ0003A	TL431ACDBZT	Texas Instruments	Equivalent	Texas Instruments
U3, U5	2		DUAL 4-A PEAK HIGH SPEED LOW- SIDE POWER MOSFET DRIVERS, D0008A	D0008A	UCC27324DR	Texas Instruments	UCC27324D	Texas Instruments
U4	1		HIGH-FREQUENCY, MULTIPHASE CONTROLLER, PW0024A	PW0024A	TPS40090PW	Texas Instruments		Texas Instruments

Notes:

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