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Designator !PCB1	Quantity	Value	Description Printed Circuit Board	PackageReference	PartNumber XX####	Manufacturer Any	Alternate PartNumber	Alternate Manufacturer
C1	1	150uF	CAP, AL, 150uF, 100V, +/-20%, 0.17 ohm, SMD	SMT Radial J16	EEV-FK2A151M	Panasonic	-	-
C2, C40,	4	1000pF	CAP, CERM, 1000 pF, 50 V, +/- 10%, X8R, 0603	0603	C1608X8R1H102K	TDK		
C43, C79			•					
C3, C10,	6	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H104K	TDK		
C31, C44, C51, C70								
C4, C32,	4	2200pF	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603	C0603C222K5RACTU	Kemet	-	-
C45, C71								
C5, C30,	4	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C105KA12	MuRata		
C46, C69 C6, C7, C8,	32	22uF	CAP, CERM, 22uF, 25V, +/-10%, X7R, 1210	1210	GRM32ER71E226KE15	MuRata		
C9, C26,	02	2201		1210	L	Martata		
C27, C28,								
C29, C47,								
C48, C49, C50, C65,								
C66, C67,								
C68, C82,								
C83, C84,								
C85, C86,								
C87, C88, C89, C90,								
C91, C92,								
C93, C94,								
C95, C96,								
C97 C12, C23,	4	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603	GRM188R72A104KA35	MuRata	-	-
C12, C23, C53, C62	-	0.101	5.4., OEIM, 0.141, 100V, 1/-10/0, A/R, 0003		D	martata		
C13	1	1000pF	CAP, CERM, 1000 pF, 100 V, +/- 5%, X7R, 0603	0603	06031C102JAT2A	AVX		
C14, C15,	8	150uF	CAP, TA, 150uF, 16V, +/-20%, 0.05 ohm, SMD	7.3x2.8x4.3mm	16TQC150MYF	Panasonic		
C34, C35, C54, C55,								
C73, C74								
C17, C37,	4	22uF	CAP, CERM, 22uF, 25V, +/-10%, X6S, 1210	1210	GRM32EC81E226KE15	MuRata		
C56, C75	4	0.04705		0603	L 06033C473JAT2A			
C20 C21, C41,	<u>1</u> 4	0.047uF 0.1uF	CAP, CERM, 0.047 μF, 25 V, +/- 5%, X7R, 0603 CAP, CERM, 0.1μF, 100V, +/-10%, X7R, 0805	0603 0805	06033C473JA12A C2012X7R2A104K	AVX TDK	-	-
C42, C60	-							
C22, C61	2	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603	06035A101JAT2A	AVX		
C24	1	Not Used	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	0603	DNP2	Used in BOM report	-	-
C25, C64	2	22pF	CAP, CERM, 22pF, 50V, +/-5%, C0G/NP0, 0603	0603	C1608C0G1H220J	TDK	•	-
C80	1	0.1uF	CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0603	0603	C0603C104K4RACTU	Kemet	-	-
C81	1	1000pF	CAP, CERM, 1000 pF, 50 V, +/- 10%, C0G/NP0, 0603	0603	06035A102KAT2A	AVX		
D1 D2 D2	10	0.61/	Diada Sahattar 1001/ 0.154 SOD 100	SOD 122	BAT46W-7-F	Diodos Inc.		
D1, D2, D3, D6, D7,	10	0.6V	Diode, Schottky, 100V, 0.15A, SOD-123	SOD-123	BA146VV-7-F	Diodes Inc.	-	-
D10, D11,								
D12, D15,								
D16	4	0.7V	Diada Sabattley 201/ 0.24 SOD 222	SOD-323	BAT54WS-7-F	Diadaa ka		
D4, D8, D13, D17	4	0.7 V	Diode, Schottky, 30V, 0.2A, SOD-323	300-323	DA 154W 5-7-F	Diodes Inc.	-	-
D19	1	5.6V	Diode, Zener, 5.6V, 200mW, SOD-323	SOD-323	MMSZ5232BS-7-F	Diodes Inc.	-	-
H1, H2, H5,	4		Standoff, Hex, 0.5"L #4-40 Nylon	Standoff	1902C	Keystone	-	-
H6 H3, H4, H7,	4		Machine Screw, Round, #4-40 x 1/4, Nylon, Philips	Screw	NY PMS 440 0025 PH	B&F Fastener Supply		
пз, п4, п7, H8	4		panhead	Sciew	NT PW5 440 0025 PH	Dar Fasterier Supply	-	-
J1, J2, J3,	6	Triple	Terminal, Turret, TH, Triple	Keystone1598-2	1598-2	Keystone	Equivalent	Any
J4, J5, J6					4.4.15			
J7, J8, J9, J10, J11,	6	50 ohm	Connector, RF Jack, Vertical, Gold, SMD	A-1JB	A-1JB	Amphenol	-	-
J10, J11, J12								
L1, L2, L3,	4	10uH	Inductor, Shielded E Core, Ferrite, 10 µH, 23.4 A,	29.7x15.36x27.94mm	SER2915H-103KL	Coilcraft		
L4			0.00186 ohm, SMD		TUE 11 100 10	D -		
LBL1	1		Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650"H x 0.200"W	1111-14-423-10	Brady	ſ	-
Q1, Q3, Q7,	8	40V	MOSFET, N-CH, 40V, 180A, DDPAK-7	DDPAK-7	IPB180N04S4-H0	Infineon Technologies		None
Q9, Q13,						-		
Q15, Q19,								
Q21 Q4, Q10,	4	0.38V	TRANS BIPO PNP 30V 1A SOT-323	SOT-323	2DB1694-7	Diodes Inc.	-	-
Q16, Q22								
Q25	1	0.2V	Transistor, NPN, 40V, 0.2A, SOT-23	SOT-23	MMBT3904	Fairchild Semiconductor	-	-
R1, R2, R21, R23,	8	100	RES, 100, 1%, 0.1 W, 0603	0603	CRCW0603100RFKEA	visnay-Dale		
R21, R23, R28, R29,								
R39, R41								
R3, R19,	4	182k	RES, 182k ohm, 1%, 0.1W, 0603	0603	CRCW0603182KFKEA	Vishay-Dale	Equivalent	Any
R30, R37 R4, R31	2	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale		
R4, R31 R5, R14	2	0 10.0k	RES, 0 onm, 5%, 0.1W, 0603 RES, 10.0k ohm, 1%, 0.1W, 0603	0603	CRCW0603000020EA CRCW060310K0FKEA	Vishay-Dale	-	-
R6	1	60.4k	RES, 60.4 k, 1%, 0.1 W, 0603	0603	CRCW060360K4FKEA	Vishay-Dale		
R7, R32	2	1.00	RES, 1.00 ohm, 1%, 0.125W, 0805	0805	CRCW08051R00FNEA	Vishay-Dale		
R8 R10	1	2.49k 16.2k	RES, 2.49k ohm, 1%, 0.1W, 0603 RES, 16.2k ohm, 1%, 0.063W, 0402	0603 0402	CRCW06032K49FKEA CRCW040216K2FKED	Vishay-Dale Vishay-Dale	-	-
R10 R11	1	1.02k	RES, 16.2k ohm, 1%, 0.063W, 0402 RES, 1.02k ohm, 1%, 0.063W, 0402	0402	CRCW040216K2FKED CRCW04021K02FKED	Vishay-Dale		
R12	1	3.40k	RES, 3.40 k, 1%, 0.1 W, 0603	0603	CRCW06033K40FKEA	Vishay-Dale		
R15, R22,	4	0.001	RES, 0.001, 1%, 1 W, 2010	2010	PMR50HZPFV1L00	Rohm		
R34, R40 R16, R35	2	49.9k	RES, 49.9 k, 1%, 0.1 W, 0603	0603	CRCW060349K9FKEA	Vichay-Dalo		
R16, R35 R17	2	49.9k 49.9	RES, 49.9 k, 1%, 0.1 W, 0603 RES, 49.9 ohm, 1%, 0.1W, 0603	0603	CRCW060349R9FKEA CRCW060349R9FKEA	Vishay-Dale Vishay-Dale	-	-
R24, R25,	6	49.9	RES, 49.9 ohm, 1%, 0.125W, 0805	0805	CRCW080549R9FKEA	Vishay-Dale	Equivalent	Any
R26, R27,								
R42, R43	4	4 7k	DES 4.7k obm 5% 0.41% 0602	0603		Vichov Dolo		
R44	1	4.7k 200	RES, 4.7k ohm, 5%, 0.1W, 0603 RES, 200, 1%, 0.1 W, 0603	0603 0603	CRCW06034K70JNEA RC0603FR-07200RL	Vishay-Dale Yageo America	-	-
R45		3.48k	RES, 3.48 k, 1%, 0.1 W, 0603	0603	CRCW06033K48FKEA	Vishay-Dale		
R45 R46	1	0.401						
R46 R50, R52,	1 8	0	RES, 0 ohm, 5%, 0.063W, 0402	0402	CRCW04020000Z0ED	Vishay-Dale		
R46 R50, R52, R54, R56,	8			0402	CRCW04020000Z0ED	Vishay-Dale		
R46 R50, R52,	8			0402	CRCW04020000Z0ED	Vishay-Dale		

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Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
T1, T2	2	50A	Terminal 50A Lug	CB35-36-CY	CB35-36-CY	Panduit	Equivalent	Any
T3, T4	2	90A	Terminal 90A Lug	CB70-14-CY	CB70-14-CY	Panduit	Equivalent	Any
TP1, TP3	2	Red	Test Point, TH, Multipurpose, Red	Keystone5010	5010	Keystone	Equivalent	Any
TP2, TP4, TP7	3	Black	Test Point, TH, Multipurpose, Black	Keystone5011	5011	Keystone	Equivalent	Any
TP5, TP6	2	White	Test Point, TH, Multipurpose, White	Keystone5012	5012	Keystone	Equivalent	Any
U1, U2	2		IC CTRL SYNC BUCK DUAL 32-LLP	SQA32A	LM5119PSQE/NOPB	Texas Instruments		
U3	1		CMOS Timer, 8-pin Mini SOIC	MUA08A	LMC555CMM	Texas Instruments		
U4	1	SN74LVC1G04DBVR	IC, Single Gate Inverter		SN74LVC1G04DBVR	Texas Instruments		
C11, C33, C52, C72	0	2700pF	CAP, CERM, 2700pF, 100V, +/-5%, X7R, 0805	0805	08051C272JAT2A	AVX	-	-
C16, C18, C19, C36, C38, C39, C57, C58, C59, C76, C77, C78	0	22uF	CAP, CERM, 22uF, 25V, +/-10%, X6S, 1210	1210	GRM32EC81E226KE15 L	MuRata		
C63	0	Not Used	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	0603	DNP2	Used in BOM report	-	-
D20, D21, D22, D23	0	0.7V	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323	BAT54WS-7-F	Diodes Inc.	-	-
D24, D25, D26, D27	0	60V	Diode, Schottky, 60V, 2A, SMB	SMB	MBRS260T3G	ON Semiconductor		
FID1, FID2, FID3	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A		
R9	0	Not Used	RES, xxx ohm, x%, xW, [PackageReference]	0603	DNP1	Used in BOM report	-	-
R13, R20, R33, R38	0	1.00	RES, 1.00 ohm, 1%, 0.25W, 1206	1206	CRCW12061R00FNEA	Vishay-Dale		
R18, R36, R63	0	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale		
R47, R48, R49, R51, R53, R55, R57, R58	0	4.7k	RES, 4.7k ohm, 5%, 0.063W, 0402	0402	CRCW04024K70JNED	Vishay-Dale		

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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