

Change in menu Project

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer	Alternate PartNumber	Alternate Manufacturer
IPC	1		Printed Circuit Board		XX###	Any	-	-
C1, C2, C3, C20, C21, C22	6	2.2uF	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	1210	HMK325B7225KN-T	Taiyo Yuden		
C4, C18	2	1uF	CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603	0603	GRM188R71C105KA12D	MuRata		
C5	1	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805	0805	C2012X7R2A104K	TDK	-	-
C6, C14, C24	3	0.1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H104K	TDK		
C7, C19	2	0.1uF	CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0603	0603	GRM188R72A104KA35D	MuRata	-	-
C8, C11, C17	3	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603	06035A101JAT2A	AVX		
C9, C10, C27, C28	4		CAP ALUM 22UF 12.5V 20% SMD	Used in BOM report	EEF-CD1B220R	Panasonic-ECG		
C12, C29	2	2700pF	CAP, CERM, 2700pF, 100V, +/-5%, X7R, 0603	0603	06031C272JAT2A	AVX	-	-
C13	1	0.047uF	CAP, CERM, 0.047uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H473K	TDK	-	-
C15, C23	2	2200pF	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603	C0603C222K5RACTU	Kemet	-	-
C16	1	1uF	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603	C1608X7R1H104K	TDK		
C25, C26	2	100pF	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603	GRM1885C1H101JA01D	MuRata	-	-
D1, D2, D3, D4	4	0.6V	Diode, Schottky, 100V, 0.15A, SOD-123	SOD-123	BAT46W-7-F	Diodes Inc.	-	-
D5, D6, D7, D8	4	0.7V	Diode, Schottky, 30V, 0.2A, SOD-323	SOD-323	BAT54WS-7-F	Diodes Inc.	-	-
EN2, Sync, TP IN, TP OUT, VIN, VOUT	6	Red	Test Point, TH, Miniature, Red	Keystone5000	5000	Keystone	-	-
FID1, FID2, FID3	3		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A		
GND, GND V	2	Black	Test Point, TH, Miniature, Black	Keystone5001	5001	Keystone	-	-
H1, H2, H3, H4	4		Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw	NY PMS 440 0025 PH	B&F Fastener Supply	-	-
H5, H6, H7, H8	4		Standoff, Hex, 0.5"L #4-40 Nylon	Standoff	1902C	Keystone	-	-
J1, J2	2		PC PIN .040 DIA 3102-2 SERIES	Through Hole 44 mil drfill	3102-2-00-21-00-00-08-0	Mill -Max	-	-
J3, J4	2		CIRCUIT PIN PRNTD .188" .084"	Through Hole 67 mil drfill	3144-2-00-21-00-00-08-0	Mill -Max	-	-
L1, L2	2	10.0uH	Inductor, Shielded E Core, Ferrite, 10.0uH, 34A, .0023 ohm, SMD	VER29xx	VER2923-103KL	Coilcraft	-	-
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	THT-14-423-10	Brady	-	-
Q1, Q2, Q5, Q6	4	80V	MOSFET, N-CH, 80V, 55A, PG-TDSON-8	PG-TDSON-8	BSC123N08NS3 G	Infineon Technologies	None	None
Q3, Q4, Q7, Q8	4	80V	MOSFET, N-CH, 80V, 100A, PG-TDSON-8	PG-TDSON-8	BSC047N08NS3 G	Infineon Technologies	-	-
Q9, Q10, Q11, Q12	4	0.075V	TRANS BIPO PNP 30V 1A SOT-323	SOT-323	2DB1694-7	Diodes Inc.	-	-
R1, R13	2	0	RES, 0 ohm, 5%, 0.1W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale		
R2, R6	2	10.0k	RES, 10.0k ohm, 1%, 0.1W, 0603	0603	CRCW060310K0FKEA	Vishay-Dale	-	-
R3	1	1.00	RES, 1.00 ohm, 1%, 0.125W, 0805	0805	CRCW08051R00FNFA	Vishay-Dale		
R4	1	133k	RES, 133k ohm, 1%, 0.1W, 0603	0603	CRCW0603133KFKEA	Vishay-Dale		
R5	1	2.49k	RES, 2.49k ohm, 1%, 0.1W, 0603	0603	CRCW06032K49FKEA	Vishay-Dale	-	-
R7, R23	2	73.2k	RES, 73.2k ohm, 1%, 0.1W, 0603	0603	CRCW060373K2FKEA	Vishay-Dale		
R8, R16	2	1.00	RES, 1.00 ohm, 1%, 0.25W, 1206	1206	CRCW12061R00FNFA	Vishay-Dale		
R9	1	3.32k	RES, 3.32k ohm, 1%, 0.1W, 0603	0603	CRCW06033K32FKEA	Vishay-Dale	-	-
R10, R19	2	0.005	RES, 0.003 ohm, 1%, 0.5W, 2010	2010	WSL20103L000FEA	Vishay-Dale	-	-
R11	1	4.99k	RES, 4.99k ohm, 1%, 0.1W, 0603	0603	CRCW060349K9FKEA	Vishay-Dale	-	-
R18	1	69.8k	RES, 69.8k ohm, 1%, 0.1W, 0603	0603	CRCW060369K8FKEA	Vishay-Dale	-	-
R22	1	4.99k	RES, 4.99k ohm, 1%, 0.1W, 0603	0603	CRCW060349K9FKEA	Vishay-Dale	-	-
R24	1	49.9	RES, 49.9 ohm, 1%, 0.1W, 0603	0603	CRCW0603499FKEA	Vishay-Dale	-	-
R25, R26, R27, R28	4	100	RES, 100 ohm, 1%, 0.1W, 0603	0603	CRCW0603100RFKEA	Vishay-Dale	-	-
U1	1		IC CTRL SYNC BUCK DUAL 32-LLP	SQA32A	LM5119PSQE/NOPB	National Semiconductor		

Notes:

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

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