

Part Number	Qty	Refdes	Description	PN
tbd	1	M1	PCB, 12-layer, 2 ounce all layers, 2.032mm thick	
Secondary smart SR	4	U1, U2, U3, U4	Synchronous Buck NexFET Power Stage, DMC0012A (VSON-CLIP-12)	CSD95490Q5MC
Primary GAN FET	4	Q1, Q2, Q3, Q4	MOSFET, N-CH, 100 V, 16 A, 2.5x1.5mm	EPC2045ENGRT
Resonant Cap	8	C1, C2, C8, C9, C10, C11, C15, C48	CAP, CERM, 0.22 uF, 50 V, +/- 10%, U2J, 1206	C1206C224K3JAC7800
DNP	4	C16, C46, C47, C61	CAP, CERM, 0.22 uF, 50 V, +/- 10%, U2J, 1206	C1206C224K3JAC7800
Input Caps	10	C3, C17, C18, C95, C96, C97, C98, C99, C108, C109	CAP, CERM, 3.3 uF, 100 V, +/- 20%, X7S, 1206	C3216X7S2A335K160AB
Input Caps	2	C66, C67	CAP ALUM 22UF 20% 100V SMD	EMVA101ADA220MHA0G
Controller	1	U102	Highly Integrated Digital Controller for Isolated Power, RMH0040A	UCD3138ARMHR
Output Caps 0402	24	C26, C27, C28, C29, C30, C31, C32, C33, C38, C39, C40, C41, C42, C43, C44, C45, C52, C53, C54, C55, C56, C57, C58, C59, C60, C64, C65, C68, C69, C70, C71, C87, C103, C110, C111, C112, C113, C114, C115, C117, C118, C119, C121, C122, C126, C128, C129	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X6S, 0402	GRM155C81C225ME15D
Output caps 0805	8	C37, C49, C63, C75	CAP, CERM, 10 uF, 16 V, +/- 10%, X6S, 0805	GRM21BC81C106KE15L
tbd	1	T1	Transformer Core - U shape	ML-91s Hitachi Metal
tbd	1	T2	Transformer Core - I shape	ML-91s Hitachi Metal
tbd	2	U5, U6	100-V, 1.2-A, 5-A, Half-Bridge Gate Driver for Enhancement Mode GaN FETs, YFX0012AHAP (DSBGA-12)	LMG1205YFXR
tbd	10	C21, C22, C25, C50, C51, C76, C77, C79, C85, C133	CAP, CERM, 1 uF, 10 V, +/- 10%, X6S, 0402	GRM155C81A105KA12D
tbd	2	C81, C84	CAP, CERM, 2.2 uF, 16 V, +/- 20%, X7R, 0603	GRM188Z71C225KE43
tbd	1	C34	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	GRM188Z71A106MA73D
tbd	8	R1, R2, R3, R4, R5, R6, R7, R8	RES, 0, 5%, 0.063 W, 0402	ERJ-2GE0R00X
tbd	6	C5, C20, C35, C93, C94, C101	CAP, CERM, 1000 pF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	GCM155R71H102KA37D
tbd	1	U7	1uA, Ultra-Low Iq, 200mA Low-Dropout Regulator in a Small-Size Package, DQN0004A (X2SON-4)	TPS7A0533PDQNT
tbd	2	C23, C24	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	GCM155R71C104KA55D
tbd	2	C82, C86	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0402	GRM155R71E103KA01D
tbd	4	R9, R17, R18, R71	RES, 2.0 k, 1%, 0.063 W, 0402	CRCW04022K00JNED
tbd	4	R19, R20, R25, R37	RES, 100, 1%, 0.1 W, 0402	ERJ-2RKF1000X
tbd	2	R32, R100	RES, 10.0 k, 1%, 0.063 W, 0402	CRCW040210K0FKED
tbd	1	R108	RES, 1.00, 1%, 0.063 W, 0402	CRCW04021R00FKED
tbd	1	R24	RES, 2.2 k, 1%, 0.063 W, 0402	CRCW04022K20JNED
tbd	1	R26	RES, 287 k, 1%, 0.063 W, 0402	CRCW0402287KFKED
tbd	1	R27	RES, 100 k, 1%, 0.063 W, 0402	CRCW0402100KFKED
tbd	1	R102	RES, 1.00 k, 1%, 0.063 W, 0402	CRCW04021K00FKED
tbd	0	C36	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X6S, 0402	DNP

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