

	A	B	C	D	E
1	REQUIRED CIRCUIT COMPONENTS				
2	ITEM	QTY	Ref - Des	DESCRIPTION	Manufacturer's Part Number
3	1	2	C1, C2	CAP., 4.7uF, X5R, 25V, 10%, 0603, NO SUBS. ALLOWED	MURATA, GRM188R61E475KE11D
4	2	4	C3, C4, C15, C17	CAP., 0.1uF, X7R, 25V, 10%, 0603	AVX, 06033C104KAT2A
5	3	2	C5, C7	CAP., 1nF, X7R, 25V, 10%, 0603	AVX, 06033C102KAT2A
6	4	4	C10, C11, C20, C24	CAP., 100pF, C0G, 25V, 10%, 0603	AVX, 06033A101KAT2A
7	5	2	C12, C14	CAP., 4.7nF, C0G/NP0, 50V, 5%, 0603	AVX, 06035A472JAT2A
8	6	3	C18, C19, C23	CAP., 1uF, X7R, 25V, 10%, 0603, AEC-Q200	MURATA, GCM188R71E105KA64D
9	7	2	C21, C22	CAP., 1uF, X7R, 25V, 10%, 0805	WURTH ELEKTRONIK, 885012207078
10	8	1	C25	CAP., 0.1uF, X7R, 100V, 10%, 0603	MURATA, GRM188R72A104KA35D
11	9	2	CIN1, CIN2	CAP., 47uF, ALUM. POLY. HYB., 80V, 20%, 10x10.2mm SMD, RADIAL, AEC-Q200	PANASONIC, EEH2C1K470P
12	10	4	CIN3-CIN6	CAP., 22uF, X7S, 100V, 20%, 2220, STACKED	TDK, CKG57NX7S2A226M500JH
13	11	4	CIN7, CIN12-CIN14	CAP., 1uF, X7S, 100V, 10%, 0805, SOFT TERM.	MURATA, GRJ21BC72A105KE11L
14	12	8	CIN8-CIN11, CIN15-CIN18	CAP., 10uF, X7S, 100V, 10%, 1210	MURATA, GRM32EC72A106KE05L
15	13	8	COUT1, COUT2, COUT8-COUT12, COUT14	CAP., 22uF, X7R, 16V, 10%, 1210	MURATA, GRM32ER71C226KEA8L
16	14	4	COUT3, COUT5, COUT7, COUT15	CAP., 150uF, TANT., 16V, 20%, 7343	PANASONIC, 16TQC150MYF
17	15	6	J1-J6	EVAL BOARD STUD HARDWARE SET, #10-32	ANALOG DEVICES, 720-0010
18	16	2	L1, L2	IND., 2uH, PWR, SHIELDED, 20%, 40A, 1.34mOHMS, 19.69x19.55x10.67mm, SER2011, AEC-Q200	COILCRAFT, SER2011-202MLB
19	17	2	Q2, Q3	XSTR., MOSFET, N-CH, E-Mode, 100V, 120A, GaNPX-4, BOTTOM-SIDE COOLED	GAN SYSTEMS INC., GS-010-120-1-P-E01-MR
20	18	4	Q5-Q8	XSTR., MOSFET, N-CH, E-Mode, 100V, 90A, GaNPX-4, BOTTOM-SIDE COOLED	GAN SYSTEMS INC., GS61008P-E05-MR
21	19	2	Q9, Q10	XSTR., MOSFET, N-CH, 40V, TO-252 (DPAK)	VISHAY, SUD50N04-8M8P-4GE3
22	20	4	R1, R5, R56, R62	RES., 1M OHM, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW06031M00FKEA
23	21	19	R2, R6-R11, R13-R16, R18, R25, R28, R36, R37, R39, R50, R52	RES., 0 OHM, 1/10W, 0603, AEC-Q200	VISHAY, CRCW06030000Z0EA
24	22	1	R4	RES., 1 OHM, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW06031R00FKEA
25	23	2	R12, R17	RES., 10 OHMS, 1%, 1/10W, 0603	VISHAY, CRCW060310R0FKEA
26	24	3	R20, R21, R64	RES., 10k OHMS, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW060310K0FKEA
27	25	1	R23	RES., 1.4M, OHMS, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW06031M40FKEA
28	26	2	R24, R29	RES., 237 OHMS, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW0603237RFKEA
29	27	2	R32, R57	RES., 100k OHMS, 1%, 1/10W, 0603, AEC-Q200	VISHAY, CRCW0603100KFKEA

	A	B	C	D	E
30	28	1	R49	RES.,1k OHM,1%,1/10W,0603	VISHAY, CRCW06031K00FKEA
31	29	1	R54	RES.,0 OHMS,1W,2010,AEC-Q200	VISHAY, CRCW20100000Z0EFHP
32	30	1	R65	RES.,0.01 OHM,1%,1W,2010,HIGH POWER	VISHAY, WSL2010R0100FEA18
33	31	2	R69, R70	RES.,30 OHMS,1%,1W,2512,AEC-Q200	VISHAY, CRCW251230R0FKEG
34	32	2	RS1, RS2	RES.,0.0015,OHM,1%,3W,2512,METAL,SENSE,AEC-Q200	VISHAY, WSLP25121L500FEA
35	33	2	SW1, SW2	SWITCH SLIDE DPDT 300MA 6V Through Hole	C&K, JS202011CQN
36	34	1	U1	IC,Buck Controller for GaN FETs,QFN-40	ANALOG DEVICES, INC., LTC7890EUJ#TRPBF
37					
38	ADDITIONAL DEMO BOARD CIRCUIT COMPONENTS				
39	ITEM	QTY	Ref - Des	DESCRIPTION	Manufacturer's Part Number
40	1	0	C6, C8, C9, C13, C16	CAP., OPTION, 0603	
41	2	0	COUT4, COUT6, COUT13, COUT18	CAP., OPTION, 7343	
42	3	0	D1, D2	DIODE, OPTION, 0603	
43	4	0	D3, D4	DIODE,SCHOTTKY,100V,12A,SO-8FL,AEC-101	ON SEMICONDUCTOR, NTS12100EMFST1G
44	5	0	Q1, Q4	XSTR., OPTION, MOSFET, N-CH GaNPC-4	
45	6	0	R3, R19, R22, R26, R27, R30, R31, R33-R35, R38, R40, R51, R53, R58-R61, R63, R66, R68	RES., OPTION, 0603	
46	7	0	R55	RES., OPTION, 2010	
47	8	0	R67, R71-R73	RES., OPTION, 2512	
48					
49	HARDWARE				
50	ITEM	QTY	Ref - Des	DESCRIPTION	Manufacturer's Part Number
51	1	17	E1-E17	TEST POINT,TURRET,0.094" MTG. HOLE,PCB 0.062" THICK	MILL-MAX, 2501-2-00-80-00-00-07-0
52	2	3	J7-J9	CONN.,RF, BNC,RCPT JACK,5-PIN,STR, THT,50 Ohms	AMPHENOL RF, 112404
53	3	5	JP1-JP5	CONN.,HDR,MALE,2x3,2mm,VERT, STR, THT	WURTH ELEKTRONIK, 62000621121
54	4	4	MP1-MP4	STANDOFF,NYLON,SNAP-ON,0.625"	KEYSTONE, 8834
55	5	5	XJP1-XJP5	CONN.,SHUNT,FEMALE,2 POS,2mm	Würth Elektronik, 60800213421