

100V SYNC BUCK DC/DC EVAL BOARD

REV C  
DATE 4/14/2016

Item	Quantity	Reference	Part	Footprint	Description	Manufacturer	MFR P/N	Assembly Note
0	1	PCB1			PCB BARE 4-LAYER 2OZ CU.	MYROPCB		
1	1	CIN1	47uF 80V	CAPAL-PANA-F	CAP ALUM 47UF 20% 80V SMD	Panasonic	EEE-FK1K470P	DO NOT POPULATE
2	4	CON1,CON2,CON3,CON4	CON-10-32-SCRWMNT	con-10-32-screw	JACK NON-INSULATED .218"	Keystone	575-4	INSTALL ON THE TOP SIDE
3	1	COUT1	220uF 25V	CAP_PANASONIC_FK_	CAP ALUM 220UF 20% 25V SMD	Panasonic	EEE-FK1E221P	
4	4	C1,C2,C3,C4	10uF 100V	C2220	CAP CER 10UF 100V 20% X7R 2220	TDK	C5750X7S2A106K230KB	
5	3	C5,C6,C7	1uF 100V	C1206	CAP CER 1UF 100V X7R 1206	TDK	C3216X7R2A105K160AA	
6	2	C8,C10	0.1uF 25V	C0603	CAP CER 0.1UF 25V X7R 0603	TDK	C1608X7R1E104K080AA	
7	5	C9,C13,C17,C18,C20	1uF 25V	C0603	CAP CER 1UF 25V X7R 0603	TDK	CGA3E1X7R1E105K080AD	
8	2	C11,C12	100pF 25V	C0603	CAP CER 100PF 25V NP0 0603	KEMET	C0603C101J3GACTU	
9	3	C14,C15,C16	22uF 25V	C2220	CAP CER 22UF 25V X7R 2220	TDK	C5750X7R1E226M250KA	
10	1	C19	2.2uF 25V	C0603	CAP CER 2.2UF 25V X5R 0603	TDK	C1608X5R1E225K080AB	
11	2	D1,D2	PMEG2005EB	SOD523	DIODE SCHOTTKY 20V 500MA SOD523	NXP	PMEG2005EB,115	
12	1	J1	112538	CON-BNC-AMPHENOL-112538	CONN BNC JACK STR 50 OHM PCB	AMPHENOL	112538	
13	1	J2			TERM BLOCK HDR 2POS R/A 5.08MM	TE	796638-2	
14	1	L1	SER2000/2900	IND_COILCRAFT_SER2000	UNIVERSAL FOOTPRINT FOR SER2000/2900	COILCRAFT	SER2018-103KL	
15	2	Q1,Q2	GS61008P	GANSYS-GS61008P	GAN E-HEMT TRANS 100V 90A	GAN SYSTEMS	GS61008P	
16	3	R1,R4,R5, R8,R9	100R	R0603	RES SMD 100 OHM 1% 1/10W 0603	VISHAY DALE	CRCW0603100RFKEA	DO NOT POPULATE R4,R5
17	2	R2,R3	100R	R1206	RES SMD 100 OHM 1% 1/4W 1206	VISHAY DALE	CRCW1206100RFKEA	DO NOT POPULATE
18	1	R6	4R7	R0603	RES SMD 4.7 OHM 1% 1/10W 0603	VISHAY DALE	CRCW06034R70FKEA	
19	3	R7,R10, R11	1R	R0603	RES SMD 1 OHM 1% 1/10W 0603	VISHAY DALE	CRCW06031R00FKEA	
20	3	TP1,TP2,TP3	HOLE105X140	HOLE105X140				
21	3	TP4,TP5,TP6	HOLE47X77-RTN	HOLE47X77				
22	4	TP7,TP8,TP9,TP10	TP-SMD	tpsm_keystone_5017	PC TEST POINT MINI SMD	KEYSTONE	5017	
23	2	TR1,TR2	1K	POT-MURATA-POT-PV36W202C01	TRIMMER 1K OHM 0.5W TH	MURATA	PV36W102C01B00	
24	1	U1	74VHC132	TSSOP-14	IC GATE NAND 4CH 2-INP 14-TSSOP	FAIRCHILD	74VHC132MTCX	
25	1	U2	LM5113	WSON-10	IC GATE DVR HALF BRIDGE 4A 10SON	TI	LM5113SD/NOPB	
26	1	U3	LP2985IM5-6.1	sof23-5	IC REG LDO 5V 0.15A SOT23-5	TI	LP2985IM5-5.0/NOPB	
<b>Off the board components</b>								
27	4	STANDOFF			HEX STDOFF 6-32 ALUM 1/2"	KEYSTONE	2210	DO NOT INSTALL
28	4	HEX NUTS			HEX NUT STEEL 6-32	KEYSTONE	4701	DO NOT INSTALL
29	1	J2-PLUG			TERM BLK PLUG	TE CONNECTIV	796634-2	INSTALL ON J2