

TITLE: Bill of Materials							
DATE: 01/09/2018							
DESIGN: max17690_maxrefdes1092_apps_p2							
NOTE: DNI--> DO NOT INSTALL(PACKOUT) ; DNP--> DO NOT PROCURE							
ITEM	REF_DES	DNI/DNP	QTY	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION
1	C1, C14	-	2	GRM32ER71H106KA12; CL32B106KBJNNN	MURATA; SAMSUNG ELECTRONICS	10UF	CAPACITOR; SMT (1210); CERAMIC CHIP; 10UF; 50V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R
2	C2	-	1	C2012X7S2A105K125; GRJ21BC72A105KE11	TDK; MURATA	1UF	CAPACITOR; SMT (0805); CERAMIC CHIP; 1UF; 100V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7S
3	C3, C9, C10	-	3	C2012X7R1H225K	TDK	2.2UF	CAPACITOR; SMT (0805); CERAMIC CHIP; 2.2UF; 50V; TOL=10%; MODEL=; TG=-55 DEGC TO +125 DEGC; TC=X7R
4	C4	-	1	CGA5F4C0G2J102J	TDK	1000PF	CAPACITOR; SMT (1206); CERAMIC CHIP; 1000PF; 630V; TOL=5%; MODEL=; TG=-55 DEGC TO +125 DEGC; TC=C0G
5	C5	-	1	GRM21A5C2D151JW01	MURATA	150PF	CAP; SMT (0805); 150PF; 5%; 200V; C0G; CERAMIC CHIP
6	C6, C7	-	2	C0603C473K5RAC; GCM188R71H473K; GRM188R71H473K	KEMET;MURATA;M URATA	0.047UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 0.047UF; 50V; TOL=10%; MODEL=X7R; TG=-55 DEGC TO +125 DEGC; TC=
7	C8	-	1	C0603C100K1GAC	KEMET	10PF	CAPACITOR; SMT (0603); CERAMIC CHIP; 10PF; 100V; TOL=10%; MODEL=C0G; TG=-55 DEGC TO +125 DEGC; TC=+/-
8	C11, C15	-	2	C1210C107M9PAC; C1210X5R6R3-107MNE; GRM32ER60J107ME20; C3225X5R0J107M250AC	KEMET; VENKEL LTD.; MURATA; TDK	100UF	CAPACITOR; SMT (1210); CERAMIC CHIP; 100UF; 6.3V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R
9	C12	-	1	1206SC102KAT	AVX	1000PF	CAPACITOR; SMT (1206); CERAMIC CHIP; 1000PF; 1500V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R
10	C13	-	1	06033C103MAT2A	AVX	0.01UF	CAPACITOR; SMT (0603); CERAMIC CHIP; 0.01UF; 25V; TOL=20%; TG=-55 DEGC TO +125 DEGC; TC=X7R
11	D1	-	1	DFLR1200	DIODES INCORPORATED	DFLR1200	DIODE; RECT; SMT (POWERDI-123); PIV=200V; IF=1A
12	D3	-	1	SMAZ5V6	DIODES INCORPORATED	5.6V	DIODE; ZNR; SMA (DO-214AC); VZ=5.60V; IZ=0.1A
13	VIN, GND0, PGND, VOUT	-	4	9020 BUSS	WEICO WIRE	MAXIMPAD	EVK KIT PARTS; MAXIM PAD; WIRE; NATURAL; SOLID; WEICO WIRE; SOFT DRAWN BUS TYPE-S; 20AWG
14	Q1	-	1	FDMS86252	FAIRCHILD SEMICONDUCTOR	FDMS86252	TRAN; N-CHANNEL SHIELDED GATE POWER TRENCH MOSFET; NCH; POWER=56; PD-(69W); I-(16A); V-(150V)
15	Q2	-	1	BSZ040N04LSG	INFINEON	BSZ040N04LSG	TRAN; OPTIMOS TM 3 POWER-TRANSISTOR; NCH; PG-TSDSON8; PD-(69W); I-(40A); V-(40V)
16	R1, R5	-	2	CRCW060310K0FK;ERJ- 3EKF1002	VISHAY DALE;PANASONIC	10K	RESISTOR; 0603; 10K; 1%; 100PPM; 0.10W; THICK FILM
17	R2	-	1	ERJ-3EKF1963	PANASONIC	196K	RESISTOR; 0603; 196K OHM; 1%; 100PPM; 0.1W; THICK FILM
18	R3	-	1	ERJ-3EKF3162V	PANASONIC	31.6K	RESISTOR; 0603; 31.6K OHM; 1%; 100PPM; 0.10W; THICK FILM
19	R4	-	1	ERJ-3EKF9092	PANASONIC	90.9K	RESISTOR; 0603; 90.9K OHM; 1%; 100PPM; 0.1W; THICK FILM
20	R6	-	1	ERJ-3EKF1213	PANASONIC	121K	RESISTOR; 0603; 121K OHM; 1%; 100PPM; 0.10W; THICK FILM
21	R8	-	1	CRCW060360K4FK	VISHAY DALE	60.4K	RESISTOR, 0603, 60.4KOHMS, 1%, 100PPM, 0.1W, THICK FILM
22	R9	-	1	ERJ-3EKF3482	PANASONIC	34.8K	RESISTOR; 0603; 34.8K OHM; 1%; 100PPM; 0.1W; THICK FILM
23	R10	-	1	RK73H1JTTD7321F	KOA SPEER ELECTRONICS INC.	7.32K	RESISTOR; 0603; 7.32K OHM; 1%; 100PPM; 0.10W; THICK FILM
24	R11	-	1	ERJ-12SF5902	PANASONIC	59K	RES; SMT (2010); 59K; 1%; +/-100PPM/DEGC; 0.75W
25	R12	-	1	CRCW120647R0JN;ERJ- 8GEYJ470	VISHAY DALE; PANASONIC	47	RESISTOR; 1206; 47 OHM; 5%; 200PPM; 0.25W; THICK FILM
26	R13	-	1	ERJ-8CWFR030	PANASONIC	0.03	RESISTOR; 1206; 0.03 OHM; 1%; 75PPM; 1W; THICK FILM
27	R15	-	1	ERJ-3EKF1211V	PANASONIC	1.21K	RESISTOR; 0603; 1.21K OHM; 1%; 100PPM; 0.10W; THICK FILM
28	R16	-	1	ERJ-3EKF7502V	PANASONIC	75K	RESISTOR; 0603; 75K OHM; 1%; 100PPM; 0.10W; THICK FILM
29	R17	-	1	CRCW060310R0FK; MCR03EZPFX10R0	VISHAY DALE;ROHM	10	RESISTOR; 0603; 10 OHM; 1%; 100PPM; 0.10W; THICK FILM
30	R18	-	1	CRCW06037K50FK	VISHAY	7.5K	RESISTOR; 0603; 7.5K OHM; 1%; 100PPM; 0.1W; THICK FILM
31	R19	-	1	CRCW060322R1FK	VISHAY DALE	22.1	RESISTOR; 0603; 22.1 OHM; 1%; 100PPM; 0.10W; THICK FILM
32	U1	-	1	MAX17690ATE+	MAXIM	MAX17690ATE+	IC; CTRL; 60V; NO-OPTO ISOLATED FLYBACK CONTROLLER; TQFN16-EP
33	U2	-	1	MAX17606AZT+	MAXIM	MAX17606AZT+	IC; CONV; SECONDARY-SIDE SYNCHRONOUS MOSFET DRIVER FOR FLYBACK CONVERTER; TSOT23-6
34	PCB	-	1	MAX17690_MAXREFDES10 92_APPS_P2	MAXIM	PCB	PCB:MAX17690_MAXREFDES1092_APPS_P2
35	C16	DNI	1	GRM32ER71H106KA12; CL32B106KBJNNN	MURATA; SAMSUNG ELECTRONICS	10UF	CAPACITOR; SMT (1210); CERAMIC CHIP; 10UF; 50V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7R
36	C17	DNI	1	C1210C107M9PAC; C1210X5R6R3-107MNE; GRM32ER60J107ME20; C3225X5R0J107M250AC	KEMET; VENKEL LTD.; MURATA; TDK	100UF	CAPACITOR; SMT (1210); CERAMIC CHIP; 100UF; 6.3V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R
37	D2	DNP	0	1N4148W-7-F	DIODES INCORPORATED	1N4148W-7-F	DIODE; SWT; SMT (SOD-123); PIV=100V; IF=0.3A; -65 DEGC TO +150 DEGC
38	R14	DNP	0	CRCW060310R0FK; MCR03EZPFX10R0	VISHAY DALE;ROHM	10	RESISTOR; 0603; 10 OHM; 1%; 100PPM; 0.10W; THICK FILM
39	T1	DNP	0	750317248	WURTH ELECTRONICS INC	750317248	EVKIT PART - TRANSFORMER; 750317248; 8L SMT
TOTAL			45				