


Bill of Materials		
EV Kit Part Number:	MAX5868EVKIT	 maxim integrated.
Revision:	d	
Date:	5/22/2017	

NOTE: NL--> NOT LOAD

Item	Reference	Quantity	Value	Tolerance	Description	Part Number	Manufacturer
1	C1	1	150μF	±20%	CAPACITOR; SMT (CASE_D); ALUMINUM-ELECTROLYTIC; 150μF	EEE-FK1A151AP	PANASONIC
2	C2, C7, C32, C33, C82	5	NL	-	PACKAGE OUTLINE 0402 NON-POLAR CAPACITOR	N/A	N/A
3	C3, C4, C23, C29, C30	5	1μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 1μF; 6.3V; TC=X5R	C0402X5R6R3-105KNP; C1005X5R0J105K; GRM155R60J105KE19; JMK105BJ105KV	VENKEL LTD./ TDK/MURATA
4	C5, C6, C21, C22	4	100pF	±5%	CAPACITOR; SMT (0402); CERAMIC CHIP; 100pF; 50V	C0402C101J5GAC; NMC0402NPO101J; CC0402JRNPO9BN101; GRM1555C1H101JA01; C1005C0G1H101J050	KEMET/NIC COMPONENTS CORP./YAGEO PHICOMP/MURATA/TDK
5	C8, C13, C47, C50, C51	5	0.01μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01μF; 10V; TC=X5R	GRM155R61A103KA01	MURATA
6	C9, C11, C15, C24, C49, C76-C79, C83, C99, C116, C117	13	10μF	±20%	CAPACITOR; SMT (0805); CERAMIC CHIP; 10μF; 6.3V; TC=X5R	C0805X5R6R3-106MNE; C2012X5R0J106M125AB; JMK212BJ106MG	VENKEL LTD./TDK; TAIYO YUDEN
7	C10, C25, C31, C63, C84, C100	6	0.22μF	±20%	CAPACITOR; SMT (0201); CERAMIC CHIP; 0.22μF; 6.3V; TC=X5R	JMK063BJ224MP	TAIYO YUDEN
8	C12, C17-C20, C35-C39, C42, C45, C46, C67, C69, C72, C73, C95	18	0.1μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1μF; 10V; TC=X5R	C1005X5R1A104K; LMK105BJ104KV	TDK; TAIYO YUDEN
9	C14, C26, C48, C74, C81, C97	6	47μF	±20%	CAPACITOR; SMT (6032); TANTALUM CHIP; 47μF; 16V; MODEL=TPS SERIES	TPSC476M016R0350	AVX
10	C16, C27, C28, C62, C98	5	NL	-	PACKAGE OUTLINE 0805 NON-POLAR CAPACITOR	N/A	N/A
11	C34, C40, C41, C43, C44, C85-C88, C90, C92, C1002-C1010	20	0.1μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1μF; 10V; TC=X7R	GRM155R71A104KA01; C1005X7R1A104K; C0402C104K8RAC	MURATA/TDK/KEMET
12	C52	1	2200pF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 2200pF; 50V; TC=X7R	C0402X7R500-222KNE; GRM155R71H222KA01	VENKEL LTD./MURATA
13	C53, C54	2	0.1μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1μF; 25V; TC=X7R	GRM155R71E104KE14	MURATA
14	C55, C93	2	NL	-	CAPACITOR; SMT (0402); OPEN; FORMFACTOR	N/A	N/A
15	C1000, C1001	2	4.7μF	±20%	CAPACITOR; SMT (3528); TANTALUM CHIP; 4.7μF; 16V; TOL=20%	TPSB475M016R0800	AVX
16	C1011, C1012	2	8pF	±0.25PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 8pF; 50V	GRM1555C1H8R0CZ01D	MURATA
17	C1013	1	3.3μF	±20%	CAPACITOR; SMT (0402); CERAMIC CHIP; 3.3μF; 6.3V; TC=X5R	C1005X5R0J335M050BC	TDK
18	L1-L5	5	120 Ohm	±25%	INDUCTOR; SMT (1812); FERRITE-BEAD; 120 Ohm; 3A	742792511	WURTH ELECTRONICS INC.
19	L6, L7, L1000, L1001	4	28 Ohm	±25%	INDUCTOR; SMT (0603); FERRITE-BEAD; 28 Ohm; 4A	742792603	WURTH ELECTRONICS INC.
20	L8, L9	2	2.2μH	±5%	INDUCTOR; SMT (1008); CERAMIC CHIP; 2.2μH; 0.28A	1008CS-222XJLC	COILCRAFT
21	R1	1	499 Ohm	±1%	RESISTOR; 0603; 499 Ohm; 100PPM; 0.10W; THICK FILM	CRCW0603499RFK; RK73H1J4990FT; ERJ-3EKF4990V; RC1608F4990	KOA; VISHAY; PANASONIC; SAMSUNG
22	R2, R3, R19, R25, R26, R28, R43	7	100 Ohm	±1%	RESISTOR; 0603; 100 Ohm; 100PPM; 0.10W; THICK FILM	CRCW0603100RFK; ERJ-3EKF1000	VISHAY DALE/PANASONIC
23	R4, R5, R21-R23, R27, R29, R34-R36, R41, R1003-R1005	14	10K Ohm	±5%	RESISTOR; 0603; 10K Ohm; 200PPM; 0.10W; THICK FILM	CRCW060310K0JN; ERJ-3GEY103V	VISHAY DALE; PANASONIC
24	R6, R7, R9, R15	4	4.02K Ohm	±1%	RESISTOR; 0603; 4.02K Ohm; 100PPM; 0.10W; THICK FILM	CRCW06034K02FK	VISHAY DALE
25	R8, R14	2	10.5K Ohm	±1%	RESISTOR; 0603; 10.5K Ohm; 100PPM; 0.063W; THICK FILM	CR0603-16W-1052FT	VENKEL LTD.
26	R16, R45	2	NL	-	PACKAGE OUTLINE 0603 RESISTOR	N/A	N/A
27	R17, R33, R46	3	0 Ohm	±5%	RESISTOR; 0603; 0 Ohm; JUMPER; 0.10W; THICK FILM	RC1608J000CS; CR0603-J/-000ELF; RC0603JR-070RL	SAMSUNG ELECTRONICS/ BOURNS/YAGEO PH
28	R20	1	1.27K Ohm	±1%	RESISTOR; 0603; 1.27K Ohm; 25PPM; 0.10W; THIN FILM	ERA-3AEB1271V	PANASONIC

29	R24	1	47 Ohm	±5%	RESISTOR; 0603; 47 Ohm; 200PPM; 0.10W; THICK FILM	ERJ-3GEYJ470V	PANASONIC
30	R61, R62	2	NL	-	RESISTOR; 0402; OPEN; FORMFACTOR	N/A	N/A
31	R1000	1	NL	-	RESISTOR; 0603; 0 Ohm; JUMPER; 0.10W; THICK FILM	N/A	N/A
32	R1001	1	1K Ohm	±5%	RESISTOR; 0603; 1K Ohm; 200PPM; 0.10W; THICK FILM	ERJ-3GEYJ102V	PANASONIC
33	R1002	1	12K Ohm	±1%	RESISTOR; 0603; 12K Ohm; 100PPM; 0.10W; THICK FILM	CRCW060312K0FK	VISHAY DALE
34	R1006	1	2.2K Ohm	±5%	RESISTOR; 0603; 2.2K Ohm; 200PPM; 0.10W; THICK FILM	CRCW06032K20JN; ERJ-3GEYJ222V	VISHAY DALE/PANASONIC
35	D1	1	LTST-C190EKT	-	DIODE; LED; STANDARD; RED; SMT (0603); PIV=2V; IF=0.02A	LTST-C190EKT	LITE-ON ELECTRONICS; INC.
36	D2-D5, DS1	5	LTST-C190GKT	-	DIODE; LED; WATER CLEAR GREEN; SMT (0603); VF=2.1V; IF=0.03A	LTST-C190GKT	LITE-ON ELECTRONICS; INC.
37	GND, +3.3V	2	108-0740-001	-	CONNECTOR; MALE; PANELMOUNT; BANANA JACK; STRAIGHT; 1PIN	108-0740-001	EMERSON NETWORK POWER
38	INTB, MUTE, REFIO, CSB_U1, RESETB, SDI_U1, SDO_U1, USB3V3, SCLK_U1, TP_1V8AUX	10	N/A	-	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RED; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	5000	KEYSTONE
39	GND1-GND5, GND10, REF-GND	7	N/A	-	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	5001	KEYSTONE
40	TP1	1	NL	-	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RED; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	N/A	N/A
41	TP2	1	NL	-	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH;	N/A	N/A
42	J2, J6-J8	4	NL	-	CONNECTOR; FEMALE; SMT; SMA JACK PCB; RIGHT ANGLE; 2PINS; FOR NELCO 4000-13SI BOARD MATERIAL	N/A	N/A
43	J4	1	N/A	-	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 3PINS	PEC03SAAN	SULLINS
44	J5	1	N/A	-	CONNECTOR; MALE; SMT; HIGH SPEED/HIGH DENSITY OPEN PIN FIELD TERMINAL ARRAY; STRAIGHT; 400PINS	ASP-134488-01	SAMTEC
45	J10	1	N/A	-	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 6PINS	PEC06SAAN	SULLINS ELECTRONICS CORP.
46	JU2-JU5	4	N/A	-	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS	PEC02SAAN	SULLINS
47	N2-N4	3	N/A	-	TRAN; ; NCH; SOT-23; PD-(0.33W); IC-(0.5A); VCEO-(60V);	2N7002	N/A
48	SU2-SU5, SU10, SU12	6	N/A	-	TEST POINT; JUMPER; STR; TOTAL LENGTH=0.256IN; BLACK; INSULATION=PBT CONTACT=PHOSPHOR BRONZE; COPPER PLATED TIN OVERALL	STC02SYAN	SULLINS ELECTRONICS CORP.
49	SW1, SW2	2	N/A	-	SWITCH; SPST; SMT; 24V; 0.05A; NORMALLY OPEN-SURFACE MOUNT TACTILE SWITCH; RCOIL= OHM	B3S-1000P	OMRON
50	USB	1	N/A	-	CONNECTOR; FEMALE; SMT; USB MINI B-TYPE SMT CONNECTOR WITH DOWEL PINS; RIGHT ANGLE; 9PINS	897-43-005-00-100001	MILL-MAX
51	Y1000	1	12MHZ	-	CRYSTAL; SMT NO DATA; 18PF; 12MHZ; +/-30PPM; +/-50PPM	ECS-120-18-28AX	ECS INC.
52	U1	1	N/A	-	IC; RFDAC; 16-BIT; 5GSPS INTERPOLATING AND MODULATING RF DAC; CSBGA144 10X10	MAX5868EXE+	MAXIM
53	U2, U9, U12	3	N/A	-	IC; VREG; 0.2V DROPOUT LDO REGULATOR; TSSOP14-EP	MAX8527EUD+	MAXIM
54	U3, U6, U8, U14, U16	5	N/A	-	IC; TXRX; 4-BIT DUAL-SUPPLY BUS TRANSCEIVER WITH CONFIGURABLE VOLTAGE TRANSLATION AND 3-STATE OUTPUT; TSSOP16	SN74AVC4T774PW	TEXAS INSTRUMENTS
55	U4	1	N/A	-	IC; VREF; LOW-COST; MICROPOWER; PRECISION; 3-TERMINA; 1.2V VOLTAGE-REFERENCE; SOT23-3	MAX6120EUR	MAXIM

56	U5	1	N/A	-	IC; SNSR; ACCURATE TEMPERATURE SENSOR WITH SMBUS SERIAL INTERFACE; QSOP16	MAX6654MEE+	MAXIM
57	U7	1	N/A	-	IC; VSUP; LOW-POWER TRIPLE-VOLTAGE uP SUPERVISORY CIRCUIT; SC70-5	MAX6740XKWED3+	MAXIM
58	U10	1	N/A	-	IC; VREG; ULTRA-LOW-NOISE, HIGH PSRR, LOW-DROPOUT, LINEAR REGULATOR; SC70-5 ; -40 DEGC TO +85 DEGC	MAX8511EXK33+	MAXIM
59	U11	1	N/A	-	IC; DIV; DIFFERENTIAL IN-TO-LVDS PROGRAMMABLE CLOCK DIVIDER AND 1:2 FANOUT BUFFER WUTH INTERNAL TERMINATION; MLF16	SY89876LMG	MICREL
60	U17-U19	3	N/A	-	IC; ASW; HIGH-BANDWIDTH; QUAD DPDT SWITCH; TQFN36-EP	MAX4761ETX+	MAXIM
61	U1000	1	N/A	-	IC; USB; QUAD HIGH SPEED USB TO MULTIPURPOSE UART/MPSE IC; LQFP64 12X12	FT4232HL	FUTURE TECHNOLOGY DEVICES INTL LTD.
62	U1001	1	N/A	-	IC; EEPROM; 2K; 16-BIT MICROWIRE COMPATIBLE SERIAL EEPROM; NSOIC8 150MIL	93LC56BT-I/SN	MICROCHIP
63	GND6, GND7, VIN1, VIN2, V1V_DUT, V2V_DUT, X2, X6, X5, X8, X7, X9	12	N/A	-	EVK KIT PARTS; MAXIM PAD; WIRE; NATURAL; SOLID; WEICO WIRE; SOFT DRAWN BUS TYPE-S; 20AWG	9020 BUSS	WEICO WIRE
TOTAL		232					