

# Bill of Materials

EV Kit Part Number: MAX5869EVKIT  
Revision: a  
Date: 1/6/2015



NOTE: NL--> NO LOADL

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, C25, C32, C33	5	NL	-	PACKAGE OUTLINE 0402 NON-POLAR CAPACITOR - EVKIT	N/A	N/A
3	C3, C4, C15, C23, C29, C30, C38, C53, C62, C70, C73, C80, C173, C180	14	1μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 1μF; 6.3V; TC=X5R	C0402X5R6R3-105KNP; C1005X5R0J105K; GRM155R60J105KE19; JMK105BJ105KV	VENKEL LTD./ TDK/MURATA
4	C5, C6, C18, C20-C22, C42, C57, C59, C60, C63, C65, C95, C97, C179	15	100pF	±5%	CAPACITOR; SMT (0402); CERAMIC CHIP; 100pF; 50V	C0402C10J5GAC; NMC0402NPO101J; CC0402JRNPO9BN101; GRM1555C1H101JA01; C1005C0G1H101J050	KEMET/NIC COMPONENTS CORP./YAGEO PHICOMP/MURATA/TKD
5	C8, C13, C16, C17, C19, C26-C28, C35, C36, C39, C45, C46, C51, C54-C56, C58, C61, C64, C68, C69, C71, C74, C81-C83, C94, C96, C174, C181	31	0.01μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.01μF; 10V; TC=X5R	GRM155R61A103KA01	MURATA
6	C9, C11, C14, C24, C37, C49, C50, C67, C72, C75, C77-C79, C116, C117, C172	16	10μF	±20%	CAPACITOR; SMT (0805); CERAMIC CHIP; 10μF; 6.3V; TC=X5R	C0805X5R6R3-106MNE; C2012X5R0J106M125AB; JMK212BJ106MG	VENKEL LTD./TDK; TAIYO YUDEN
7	C10, C31, C47, C48	4	47μF	±20%	CAPACITOR; SMT (6032); TANTALUM CHIP; 47μF; 16V; MODEL=TPS SERIES	TPSC476M016R0350	AVX
8	C12	1	4700PF	±5%	CAPACITOR; SMT (0402); CERAMIC CHIP; 4700pF; 50V; X7R	GRM155R71H472JA01D	MURATA
9	C34, C40, C41, C43, C44, C1002-C1010	14	0.1μF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 0.1μF; 10V; TC=X7R	GRM155R71A104KA01; C1005X7R1A104K; C0402C104K8RAC	MURATA/TKD/KEMET
10	C52	1	2200pF	±10%	CAPACITOR; SMT (0402); CERAMIC CHIP; 2200pF; 50V; TC=X7R	C0402X7R500-222KNE; GRM155R71H222KA01	VENKEL LTD./MURATA
11	C66	1	0.22UF	±20%	CAPACITOR; SMT (0201); CERAMIC CHIP; 0.22UF; 4V; M SERIES	AMK063C6224MP-F	TAIO YUDEN
12	C1000, C1001	2	4.7μF	±20%	CAPACITOR; SMT (3528); TANTALUM CHIP; 4.7μF; 16V; TOL=20%	TPSB475M016R0800	AVX
13	C1011, C1012	2	8pF	±0.25PF	CAPACITOR; SMT (0402); CERAMIC CHIP; 8pF; 50V	GRM1555C1H8R0CZ01D	MURATA
14	C1013	1	3.3μF	±20%	CAPACITOR; SMT (0402); CERAMIC CHIP; 3.3μF; 6.3V; TC=X5R	C1005X5R0J335M050BC	TDK
15	L1-L4, L10-L13	8	120	±25%	INDUCTOR; SMT (1812); FERRITE-BEAD; 120; 3A	742792511	WURTH ELECTRONICS INC.
16	L8, L9	2	2.2UH	±5%	INDUCTOR; SMT (1008); CERAMIC CHIP; 2.2UH; 0.28A	1008CS-222XJLC	COILCRAFT
17	L1000, L1001	2	28	±25%	INDUCTOR; SMT (0603); FERRITE-BEAD; 28; 4A	742792603	WURTH ELECTRONICS INC.
18	R1, R19, R25, R26, R28, R43	6	499 Ohm	±1%	RESISTOR; 0603; 499 Ohm; 100PPM; 0.10W; THICK FILM	CRCW0603499RFK; RK73H1J4990FT; ERJ-3EKF4990V; RC1608F4990	KOA; VISHAY; PANASONIC; SAMSUNG
19	R2, R4, R10, R12, R30, R31, R39, R40, R42	9	NL	-	PACKAGE OUTLINE 0402 RESISTOR	N/A	N/A
20	R6, R7, R9, R15	4	4.02K Ohm	±1%	RESISTOR; 0603; 4.02K Ohm; 100PPM; 0.10W; THICK FILM	CRCW06034K02FK	VISHAY DALE
21	R8, R14	2	10.5K Ohm	±1%	RESISTOR; 0603; 10.5K Ohm; 100PPM; 0.063W; THICK FILM	CR0603-16W-1052FT	VENKEL LTD.
22	R11	1	649 Ohm	±1%	RESISTOR; 0402; 649 Ohm; 100PPM; 0.063W; THICK FILM	CRCW0402649RFKED	VISHAY DALE
23	R13	1	25.5K		RESISTOR; 0603; 25.5K OHM; 1%; 100PPM; 0.10W; THICK FILM	CRCW060325K5FKEA	VISHAY DALE
24	R16, R45	2	NL		PACKAGE OUTLINE 0603 RESISTOR	N/A	N/A

25	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
26	R18, R21-R23, R27, R29, R34-R36, R38, R41, R44, R1003-R1005	15	10K Ohm	±5%	RESISTOR; 0603; 10K Ohm; 200PPM; 0.10W; THICK FILM	CRCW060310K0JN; ERJ-3GEYJ103V	VISHAY DALE; PANASONIC
27	R20	1	1.27K Ohm	±1%	RESISTOR; 0603; 1.27K Ohm; 25PPM; 0.10W; THIN FILM	ERA-3AEB1271V	PANASONIC
28	R24	1	47 Ohm	±5%	RESISTOR; 0603; 47 Ohm; 200PPM; 0.10W; THICK FILM	ERJ-3GEYJ470V	PANASONIC
29	R32, R37	2	0 Ohm	-	RESISTOR; 0402; 0 Ohm; 5%; JUMPER; 0.063W; THICK FILM	N/A	N/A
30	R1000	1	NL	-	RESISTOR; 0603; 0 Ohm; 5%; JUMPER; 0.10W; THICK FILM	N/A	N/A
31	R1001	1	1K Ohm	±5%	RESISTOR; 0603; 1K Ohm; 200PPM; 0.10W; THICK FILM	ERJ-3GEYJ102V	PANASONIC
32	R1002	1	12K Ohm	±1%	RESISTOR, 0603, 12K Ohm, 100PPM, 0.10W, THICK FILM	CRCW060312K0FK	VISHAY DALE
33	R1006	1	2.2K Ohm	±5%	RESISTOR; 0603; 2.2K Ohm; 200PPM; 0.10W; THICK FILM	CRCW06032K20JN; ERJ-3GEYJ222V	VISHAY DALE/PANASONIC
34	D1	1	N/A	-	DIODE; LED; STANDARD; RED; SMT (0603); PIV=2V; IF=0.02A	LTST-C190EKT	LITE-ON ELECTRONICS; INC.
35	D2-D5	4	N/A	-	DIODE; LED; WATER CLEAR GREEN; SMT (0603); VF=2.1V; IF=0.03A; -55 DEGC TO +85 DEGC	LTST-C190GKT	LITE-ON ELECTRONICS; INC.
36	GND, +3.3V	2	N/A	-	CONNECTOR; MALE; PANELMOUNT; BANANA JACK; STRAIGHT; 1PIN	108-0740-001	EMERSON NETWORK POWER
37	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; RECOMMENDED FOR BOARD THICKNESS=0.062IN; NOT	5001	KEYSTONE
38	TP2	1	NL	-	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; BLACK; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH; RECOMMENDED FOR BOARD THICKNESS=0.062IN; NOT	N/A	N/A
39	H3	1	N/A	-	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 12PINS	PEC12SAAN	SULLINS ELECTRONICS CORP.
40	H6, H7	2	N/A	-	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 9PINS	PEC09SAAN	SULLINS ELECTRONICS CORP.
41	J5	1	N/A	-	CONNECTOR; MALE; SMT; HIGH SPEED/HIGH DENSITY OPEN PIN FIELD TERMINAL ARRAY; STRAIGHT; 400PINS	ASP-134488-01	SAMTEC
42	JU1-JU5	5	N/A	-	CONNECTOR; MALE; THROUGH HOLE; BREAKAWAY; STRAIGHT; 2PINS; -65 DEGC TO +125 DEGC	PEC02SAAN	SULLINS
43	N1-N4	4	N/A	-	TRAN; ; NCH; SOT-23; PD-(0.33W); IC-(0.5A); VCEO-(60V); EVKIT PART FOR FORM FACTOR PROJECT	2N7002	N/A
44	TP1, TP3, REFIO, USB3V3, TP_1V8AUX	5	N/A	-	TEST POINT; PIN DIA=0.1IN; TOTAL LENGTH=0.3IN; BOARD HOLE=0.04IN; RED; PHOSPHOR BRONZE WIRE SILVER PLATE FINISH; RECOMMENDED FOR BOARD THICKNESS=0.062IN; NOT FOR COLD TEST	5000	KEYSTONE
45	SU1-SU15	15	N/A	-	TEST POINT; JUMPER; STR; TOTAL LENGTH=0.256IN; BLACK; INSULATION=PBT CONTACT=PHOSPHOR BRONZE; COPPER PLATED TIN OVERALL	STC02SYAN	SULLINS ELECTRONICS CORP.
46	SW1, SW2	2	N/A	-	SWITCH; SPST; SMT; 24V; 0.05A; NORMALLY OPEN-SURFACE MOUNT TACTILE SWITCH; RCOIL= OHM	B3S-1000P	OMRON

47	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
48	Y1000	1	12MHZ	-	CRYSTAL; SMT NO DATA; 18PF; 12MHZ; +/-30PPM; +/-50PPM	ECS-120-18-28AX	ECS INC.
49	U1	1	N/A	-	EVKIT PART- IC; BGA 10X10; 144 PINS; PKG. DWG. NO.: 21-0732	MAX5869	MAXIM
50	U2, U9, U12	3	N/A	-	IC; VREG; 0.2V DROPOUT LDO REGULATOR; TSSOP14-EP	MAX8527EUD+	MAXIM
51	U3, U6	2	N/A	-	IC; TXRX; 4-BIT DUAL-SUPPLY BUS TRANSCEIVER WITH CONFIGURABLE VOLTAGE TRANSLATION AND 3-STATE OUTPUT; TSSOP16	SN74AVC4T774PW	TEXAS INSTRUMENTS
52	U4	1	N/A	-	VOLTAGE REFERENCE	MAX6161AESA	MAXIM
53	U5	1	N/A	-	IC; SNSR; ACCURATE TEMPERATURE SENSOR WITH SMBUS SERIAL INTERFACE; QSOP16	MAX6654MEE+	MAXIM
54	U7	1	N/A	-	IC; VSUP; LOW-POWER TRIPLE-VOLTAGE uP SUPERVISORY CIRCUIT; SC70-5	MAX6740XKWED3+	MAXIM
55	U10	1	N/A	-	IC; VREG; ULTRA-LOW-NOISE, HIGH PSRR, LOW-DROPOUT, LINEAR REGULATOR; SC70-5 ; -40 DEGC TO +85 DEGC	MAX8511EXK33+	MAXIM
56	U11	1	N/A	-	EV KIT MODULE, XFMR_CLK_MODULE, PACKOUT PART	XFMR_CLK_MODULE	MAXIM
57	U13	1	N/A	-	EV KIT MODULE, XFMR_OUT_MODULE, PACKOUT PART	XFMR_OUT_MODULE	MAXIM
58	U1000	1	N/A	-	IC; USB; QUAD HIGH SPEED USB TO MULTIPURPOSE UART/MPSS IC; LQFP64 12X12	FT4232HL	FUTURE TECHNOLOGY DEVICES INTL LTD.
59	U1001	1	N/A	-	IC; EEPROM; 2K; 16-BIT MICROWIRE COMPATIBLE SERIAL EEPROM; NSOIC8 150MIL	93LC56BT-I/SN	MICROCHIP
60	V1A, V1D, V2A, V2D, GND6-GND9, VIN1, VIN2, GND11, GND12	12	MAXIMPAD	-	EVK KIT PARTS; MAXIM PAD; WIRE; NATURAL; SOLID; WEICO WIRE; SOFT DRAWN BUS TYPE-S; 20AWG	9020 BUSS	WEICO WIRE
TOTAL		249					