

MAX5879EV Kit Bill Of Materials

Item	Reference	Qty	Value	Tolerance	Description	Part Number	Manufacturer
1	C1, C2	2	100pF	±5%	0402 Ceramic Capacitor, SMT, 50V	C1005C0G1H101J	TDK
2	C3, C4, C12, C13, C52	5	0.1µF	±20%	0402 Ceramic Capacitor, SMT, 10V	C1005X5R1A104M	TDK
3	C5, C6, C7, C8, C24-C31, C50	13	1.0µF	±20%	0402 Ceramic Capacitor, SMT, 6.3V	EEEFTV151XAP	PANASONIC
4	C14, C15, C16, C48	4	47µF	±20%	C-Case Tantalum Capacitor, SMT, 16V	TPSC476M016R0350	AVX
5	C17-C23, C49	8	10µF	±20%	0805 Ceramic Capacitor, SMT, 6.3V	C2012X5R0J106M	TDK
6	C32 –C47, C53- C61	25	0.1µF	±20%	0201 Ceramic Capacitor, SMT, 6.3V	C0603X5R0J104M	TDK
7	C51, C64, C69	3	0.01µF	±10%	0402 Ceramic Capacitor, SMT, 25V	C1005X5R1E103K	TDK
8	C62	1	150µF	±20%	Electrolytic Capacitor, SMT, 10V (6.3mmx 8mm)	EEEFK1A151AP	Panasonic
9	C66, C71	2	4.7µF	±10%	0805 Ceramic Capacitor, SMT, 6.3V	2012X5R0J475K	TDK
10	C67, C72	2	6.8µF	±10%	1206 Ceramic Capacitor, SMT, 16V	C3216X5R1C685K	TDK
11	CLK, OUT	2	-	-	PC edge mount 0.92" SMA Connector	32K243-40ML5	Rosenberger
12	H1, H2	2	-	-	Vertical 2x60 surface mount high speed socket connectors	QSH-060-01-L-D-A	Samtec
13	J1	1	-	-	2x4 pin header(Cut to Fit)	PEC36SAAN	Sullins Electronic Corp.
14	JU1, JU2, JU6-JU9	6	-	-	2-pin headers (Cut to Fit)	PEC36SAAN	Sullins Electronic Corp.

15	JU3, JU5	2	-	-	4-pin headers (Cut to Fit)	PEC36SAAN	Sullins Electronic Corp.
16	JU4	1	-	-	3-pin headers (Cut to Fit)	PEC36SAAN	Sullins Electronic Corp.
17	L1, L2, L3, L6	1	-	-	1812 Chip bead cores, SMT	EXC-CL4532U1	PANASONIC
18	L4, L5	2	390nH	±5%	2520 wire-wound chip inductors, SMT, 0.47A	1008CS-391XJLB	Coilcraft
19	R2, R11, R16, R19, R21	5	0 Ohm	±5%	0603 chip resistor, SMT		
20	R3, R4	2	49.9 Ohm	±1%	0402 chip resistors, SMT		
21	R5	1	499 Ohm	±1%	0402 chip resistor, SMT		
22	R6	1	2.0 kOhm	±1%	0603 chip resistor, SMT		
23	R7-R10	4	10.0 kOhm	±1%	0603 chip resistor, SMT		
24	R13	1	133kOhm	±1%	0603 chip resistor, SMT		
25	R14	1	80.6 kOhm	±1%	0603 chip resistor, SMT		
26	R15	1	100 Ohm	±1%	0603 chip resistor, SMT		
27	R17, R18	2	27 kOhm	±1%	0402 chip resistor, SMT		
28	T1-T5	5	-	-	1:1 3000MHz RF transformers	TC1-1-13M+	Mini-Circuits
29	VDD1.8, ACLKDIV, AVDD3.3, AVCLK, VIN (x2)	6	-	-	PC Test point, red	5000	Keystone Electronics
30	GND	6	-	-	PC Test point, black	5001	Keystone Electronics
31	U1	1	-	-	14-Bit, 2.3Gsps, digital-to-analog converter, 256 CSBGA	MAX5879EXF+D	Maxim
32	U2	1	-	-	1.25V precision voltage reference, 8 SO	MAX6161AESA+ or MAX6161BESA+	Maxim
33	U3	1	-	-	SPDT Analog Switches, 6 SOT23	MAX4644EUT	Maxim

34	U4	1	-	-	3.3V LVDS Clock Driver, 16 MLF	SY89876LMG (Top Mark 876L)	Micrel
35	U5, U7	2	-	-	500mA LDO Regulator (8 TDFN-EP)	MAX8902AATA+ (Top Mark ABG)	Maxim
36	U6	1	-	-	1A LDO Regulator (16-TSSOP-EP)	MAX1793EUE50+ or MAX1793EUE25+ or MAX1793EUE18+	Maxim
37							
38	1 Oz Impedance Controlled	1	-	-	PCB: MAX5879 Evaluation Kit+	EPCB5882+	Maxim
39	Package	7	-	-	Shunts (J1, JU1-JU5)	STC02SYAN	Sullins Electronic Corp.
40	Package	1	-	-	FMC ADAPTER CARD	MAXDACFMCADP1	Maxim