

TITLE: Bill of Materials  
DATE: 09/09/2019  
DESIGN: max86141\_spo2\_1mm\_apps\_p3  
VARIANT:do\_not\_purchase

ITEM	QTY	REF DES	MAXINV	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION	STATUS
1	7	C1-C5, C10, C11	20-0022U-BA80	GRM155R60J226ME11	MURATA	22UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 22UF; 6.3V; TOL=20%; TC=X5R ;NOTE: THESE PARTS HAVE 52 WEEKS LEAD TIME; MANUFACTURING DELAYS HAVE BEEN REPORTED ON THIS PRODUCT	NOT RECOMMENDED
2	3	C6, C9, C13	20-0001U-EA78	GRM033C81A105ME05	MURATA	1UF	CAP; SMT (0201); 1UF; 20%; 10V; X6S; CERAMIC CHIP	EVKIT-NOT FOR TEST
3	1	C7	20-0010U-BA12	GRM155R61A106ME44; GRM155R61A106ME11; 0402ZD106MAT2A; CL05A106MP5NUNC	MURATA; MURATA; AVX; SAMSUNG	10UF	CAPACITOR; SMT (0402); CERAMIC CHIP; 10UF; 10V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R	ACTIVE
4	1	C8	20-0001U-AA20	GRM033R61A105ME15	MURATA	1UF	CAPACITOR; SMT (0201); CERAMIC CHIP; 1UF; 10V; TOL=20%; TG=-55 DEGC TO +85 DEGC; TC=X5R	ACTIVE
5	2	C12, C15	20-000U1-BA99	GRM033C71C104KE14	MURATA	0.1UF	CAPACITOR; SMT (0201); CERAMIC CHIP; 0.1UF; 16V; TOL=10%; TG=-55 DEGC TO +125 DEGC; TC=X7S	EVKIT-NOT FOR TEST
6	1	DS1	30-CTDBLP31125C8C56J6Q6-00	CT DBLP31.12-5C8C-56-J6Q6	OSRAM	CT DBLP31.12-5C8C-56-J6Q6	DIODE; LED; GREEN; SMT; VF=2.3V; IF=0.02A ;NOTE:SPECIAL ORDER ONLY	NOT RECOMMENDED
7	2	DS2, DS3	30-SFH7013-00	SFH 7013	OSRAM	SFH 7013	DIODE; LED; RED; GREEN; INFRARED; SMT; VF=2.1V; 3V; 1.3V; IF=0.04A; 0.03A; 0.06A; NOTE: ORDERED DIRECTLY FROM MANUFACTURER	NOT RECOMMENDED
8	1	J1	01-501616257525P-29	5016162575	MOLEX	5016162575	CONNECTOR; FEMALE; SMT; EASY-ON TYPE FPC CONNECTOR; RIGHT ANGLE; 25PINS	EVKIT-NOT FOR TEST
9	2	PD1, PD2	00-SAMPLE-01	VEMD8080	VISHAY SEMICONDUCTORS	VEMD8080	EVKIT CUSTOM - DIODE; SILICON PIN PHOTODIODE; SMT; VR=20V; IR=0.00001A	EVKIT-CUSTOM
10	13	R1-R5, R10, R11, R13, R16- R18, R21, R22	80-0000R-95	CRCW02010000ZS; ERJ- 1GN0R00	VISHAY DALE; PANASONIC	0	RESISTOR; 0201; 0 OHM; 0%; JUMPER; 0.05W; THICK FILM	ACTIVE
11	1	R6	80-0010R-95	ERJ-1GEF10R0	PANASONIC	10	RESISTOR; 0201; 10 OHM; 1%; 100PPM; 0.05W; THICK FILM 3-LAYER ELECTRODE	ACTIVE
12	2	R7, R9	80-003K3-95	ERJ-1GEF3301C	PANASONIC	3.3K	RESISTOR; 0201; 3.3K OHM; 1%; 100PPM; 0.05W; THICK FILM 3-LAYER ELECTRODE	ACTIVE
13	2	R12, R23	80-0100K-23	N/A	N/A	100K	RESISTOR; 0402; 100K; 1%; 100PPM; 0.0625W; THICK FILM; FORMFACTOR	EVKIT-CUSTOM
14	1	U1	00-SAMPLE-02	MAX86141	MAXIM	MAX86141	EVKIT PART-IC; OPTICAL ANALOG FRONT-END (AFE) OPTIMIZE FOR HR ON WRIST APPLICATION; WLP20	EVKIT-CUSTOM
15	1	U2	10-KX1221037-L	KX122-1037	KIONIX	KX122-1037	IC; SNSR; +/-2G/4G/8G TRI-AXIS DIGITAL ACCELEROMETER; LGA12	EVKIT-NOT FOR TEST
16	1	U3	10-MAX4740ETE-T	MAX4740ETE+	MAXIM	MAX4740ETE+	IC; ASW; QUAD SPDT AUDIO SWITCH; TQFN16-EP 3X3	EVKIT-NOT FOR TEST
17	1	U4	00-SAMPLE-03	MAX32664GWEZ+	MAXIM	MAX32664GWEZ+	EVKIT PART - IC; MAX32664GWEZ+; ULTRA-LOW POWER BIOMETRIC SENSOR HUB; WLP16; PACKAGE OUTLINE DRAWING NUMBER: 21-100241; PACKAGE CODE: W161K1+1	EVKIT-CUSTOM
18	1	Y1	60-32K76-0ET	CM1610H32768DZB	CITIZEN	32.7680KHZ	CRYSTAL; SMT 1.6MMX1MM; 6PF; 32.7680KHZ; +/-20PPM	EVKIT-NOT FOR TEST

TOTAL 43

PACKOUT (These are purchased parts but not assembled on PCB and will be shipped with PCB)

ITEM	QTY	REF DES	MAXINV	MFG PART #	MANUFACTURER	VALUE	DESCRIPTION	STATUS
------	-----	---------	--------	------------	--------------	-------	-------------	--------

TOTAL 0

TOTAL 43