

eZ430-Chronos Watch BOM, EU US V1.5f

<u>Designator</u>	<u>Value</u>	<u>Tolerance</u>	<u>Footprint</u>	<u>Description</u>	<u>Manufacturer</u>
C1	47uF	+ -20%	TAJ-A	Capacitor SMD	Tantalum, height max. 1.6mm
C2	47uF	+ -20%	TAJ-A	Capacitor SMD	Tantalum, height max. 1.6mm
C3	47uF	+ -20%	TAJ-A	Capacitor SMD	Tantalum, height max. 1.6mm
C4	4.7uF	+ -20%, X5R	603	Capacitor SMD	
C5	470nF	+ -10%, X5R	402	Capacitor SMD	
C6	100nF	+ -10%, X7R	402	Capacitor SMD	
C7	100nF	+ -10%, X7R	402	Capacitor SMD	
C8	15pF	+ -5%, COG/NP0	402	Capacitor SMD	
C9	15pF	+ -5%, COG/NP0	402	Capacitor SMD	
C10	10nF	+ -10%, X7R	402	Capacitor SMD	
C11	2.2pF	+ -0.25pF, COG/NP0	402	Capacitor SMD	
C12	10nF	+ -10%, X7R	402	Capacitor SMD	
C13	220pF	+ -10%, COG/NP0	402	Capacitor SMD	
C14	100nF	+ -10%, X7R	402	Capacitor SMD	
C15	100nF	+ -10%, X7R	402	Capacitor SMD	
C16	100nF	+ -10%, X7R	402	Capacitor SMD	
C17	1.8pF	+ -0.1pF, COG/NP0	402	Capacitor SMD	Johanson 500R07S1R8BV4
C18	0R	+ -5%	402	Resistor SMD	
C19	n.a.				
C20	100nF	+ -10%, X7R	402	Capacitor SMD	
C21	100nF	+ -10%, X7R	402	Capacitor SMD	
C22	2.2nF	+ -10%, X7R	402	Capacitor SMD	
C26	470nF	+ -10%, X5R	402	Capacitor SMD	
C27	470nF	+ -10%, X5R	402	Capacitor SMD	
C28	100nF	+ -10%, X7R	402	Capacitor SMD	
D1	1N4148		805	Diode SMD	
D2	1N4148		805	Diode SMD	
L1	12nH	+ -5%	402	Inductor Monolithic SMD	Johanson L-07C12NJV4
L2	5.6nH	+ -0.3nH	402	Inductor Monolithic SMD	Johanson L-07C5N6SV4
L3	n.a.				
L4	0R	+ -5%	402	Resistor SMD	
L5	35mH, RDC<=250Ohm, IDC>=1mA	+ -10%		Inductor Coil	
L6	100nH	+ -10%	402	Inductor Monolithic SMD	
L7	4mH, RDC<=100Ohm, IDC>=10mA	+ -10%		Inductor Coil	
P1	Female Header 1.27mm			Connector SMD	e.g. MPE-Garry BL SMD 91-06
PCB1	CUSTOM, solder stop black			PCB, 4 layers, 0.6 mm thick	
Q1	BC846BW or BC847BW		SOT323	Bipolar Transistor NPN SMD	
Q2	BC846BW or BC847BW		SOT323	Bipolar Transistor NPN SMD	
Q3	BC846BW or BC847BW		SOT323	Bipolar Transistor NPN SMD	
R2	47k	+ -5%	402	Resistor SMD	
R3	56k	+ -1%	402	Resistor SMD	
R4	47k	+ -5%	402	Resistor SMD	

R5	47k	+5%	402	Resistor SMD	
R7	10k	+5%	402	Resistor SMD	
R8	10k	+5%	402	Resistor SMD	
R9	10k	+5%	402	Resistor SMD	
U1	CC430F6137IRGC		QFN64	MCU with ISM Transceiver	TI
U2	0896BM15A0001			896MHz Balun	Johanson
U3	CMA3000-D01		WLP	Acceleration Sensor SPI	VTI
U4	HKA5403Q-30		DIE	EL Driver	
U5	SCP1000-D11			Pressure Sensor I2C	VTI
Y1	32.768kHz, CL=12.5pF, ESR<=80kOhm	+20ppm	3.2 x 1.5 mm2	Crystal SMD	Microcrystal CC7V-T1A
Y2	26MHz, CL=10pF, ESR<=40Ohm	+10ppm	3.2 x 2.5 mm2	Crystal SMD	Epson TSX3225-X1E000021014300