

## eZ430-Chronos Watch BOM, 433, V1.2c - white PCB

<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	
C3	47uF	+20%	TAJ-A	Capacitor SMD	
C4	4.7uF	+20%, X5R	603	Capacitor SMD	
C5	470nF	+10%, X5R	402	Capacitor SMD	Tantalum, height max. 1.6mm
C6	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C7	100nF	+10%, X5R or 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%, X5R or X7R	402	Capacitor SMD	
C15	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C16	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C17	na				
C18	na				
C19	220pF	+10%, COG/NP0	402	Capacitor SMD	
C20	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C21	100nF	+10%, X5R or X7R	402	Capacitor SMD	
C22	2.2nF	+10%, X7R	402	Capacitor SMD	
C23	100nF	+10%, X5R or X7R	402	Capacitor SMD	
D1	1SS355		SOD323	Diode SMD	Johanson L-07C12NJV4
D2	1SS355		SOD323	Diode SMD	
L1	12nH	+5%	402	Inductor Monolithic SMD	
L2 (R)	0R	+5%	402	Resistor SMD	Johanson L-07C18NJV4
L3	18nH	+5%	402	Inductor Monolithic SMD	
L4	35mH, RDC<=250Ohm, IDC>=1mA	+10%		Inductor Coil	
L5	100nH	+10%	402	Inductor Monolithic SMD	e.g. MPE-Garry BL SMD 91-06
L6	4mH, RDC<=100Ohm, IDC>=10mA	+10%		Inductor Coil	
P1	Female Header 1.27mm			Connector SMD	
PCB1	CUSTOM, solder stop white			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	
Q4	BC846BW or BC847BW		SOT323	Bipolar Transistor NPN SMD	
Q5	NTR4101P		SOT23	P-Channel MOSFET SMD	
R1	470R	+5%	402	Resistor SMD	
R2	47k	+5%	402	Resistor SMD	
R3	56k	+1%	402	Resistor SMD	
R4	47k	+5%	402	Resistor SMD	
R5	10k	+5%	402	Resistor SMD	

R6	10k	+5%	402	Resistor SMD	
R7	10k	+5%	402	Resistor SMD	
R8	10k	+5%	402	Resistor SMD	
R9	100k	+5%	402	Resistor SMD	
U1	CC430F6137IRGC		QFN64	MCU with ISM Transceiver	TI
U2	0433BM15A0001			Balun 433MHz	Johanson
U3	BMA250		LGA12	Acceleration Sensor SPI	Bosch Sensortec
U4	HKA5403Q-30		DIE	EL Driver	
U5	BMP085			Pressure Sensor I2C	Bosch Sensortec
Y1	32.768kHz, CL=12.5pF, ESR<=80kOhm	+20ppm	3.2 x 1.5 mm2	Crystal SMD	Microcrystal CM7V-T1A
Y2	26MHz, CL=10pF, ESR<=40Ohm	+10ppm	3.2 x 2.5 mm2	Crystal SMD	Epson TSX3225-X1E000021014300