

# Bill of Material



Product: EWD EVO Mainboard

BK Art. Nr.

395.163 - 7A

Date: 03.04.2017

Qty. PCB

1

Revision:

v07.00 A

Quantity	Designator	Value	Tolerance	Manufacturer	Manufacturer Part Number	Package / Case	Power (Watts)	Temperature Coefficient	Operating Temperature	Voltage - Rated	Fitted	Component to assemble
1	ANT1			Johanson Technology Inc.	2450AT07A0100T						Fitted	
6	C1, C2, C9, C15, C103, C107	100n	±10%	TDK Corporation	C0603X5R01104K030BC	0201 (0603 Metric)		X5R		6.3V	Fitted	
1	C10	3.6p	±0.1pF	Johanson Technology Inc.	500R0753R8BV4T	0402 (1005 Metric)		COG, NPO	-55°C ~ 125°C	50V	Fitted	
1	C104	10u	±20%	Murata Electronics North America	GRM155R60G106ME44D	0402 (1005 Metric)		X5R	-55°C ~ 85°C	4V	Fitted	
1	C108	10n	±10%	TDK Corporation	C0603X5R1A103K030BA	0201 (0603 Metric)		X5R		10V	Fitted	
1	C12	1u	±20%	AVX Corporation	02016D105MAT2A	0201 (0603 Metric)		X5R	-55°C ~ 85°C	6.3V	Fitted	
1	C13	27p	2%	Johanson Technology Inc.	500R075270GV4T	0402 (1005 Metric)		COG, NPO	-55°C ~ 125°C	50V	Fitted	
1	C20	1.0p	±0.1pF	Johanson Technology Inc.	500R0751R0BV4T	0402 (1005 Metric)		COG, NPO	-55°C ~ 125°C	50V	Fitted	
3	C21, C22, C101	47u	±20%	Murata	GRM219R60G476ME44D	0805 (2012 Metric)		X5R	-55°C ~ 85°C	4.0V	Fitted	
1	C3	1n	±10%	Murata Electronics North America	GRM033R71E102KA01D	0201 (0603 Metric)		X7R		25V	Fitted	
2	C4, C11	100p	±5%	AVX Corporation	02013A101AT2A	0201 (0603 Metric)		COG, NPO		25V	Fitted	
6	C5, C6, C7, C8, C105, C106	12p	±5%	TDK Corporation	C0603C0G1E120J030BA	0201 (0603 Metric)		COG, NPO	-55°C ~ 125°C	25V	Fitted	
1	CN1	4 x 1n	±20%	TDK Corporation	CKCL44X7R1H102M085AA	0805 (2012 Metric)		X7R		50V	Fitted	
1	D1	CDBQR0230R		Comchip Technology	CDBQR0230R	0402 (1005 Metric)					Fitted	
1	J3	Molex 78732-6021		MOLEX	78732-6021						Fitted	
1	L1	3.3n	± 0.2	JOHANSON TECHNOLOGY	L-07W3N3CV4T	0402 [Metrisch 1005]					Fitted	
2	L2, L3	10nH	±5%	Johanson Technology Inc.	L-07W10NJV4T	0402 (1005 Metric)			-40°C ~ 125°C		Fitted	
1	OSC1	32MHz		EPSON	Q22FA12800025				-20°C ~ 75°C		Fitted	
2	OSC2, Q1	32.768 kHz		CTS-Frequency Controls	TF202P32K7680				-40°C ~ 85°C		Fitted	
2	P1, P2	Pin Header		Mill-Max Manufacturing Corp.	0906-3-15-20-75-14-11-0						Fitted	
1	P3	Battery Plus Pole		Big Kaiser Precision Tooling Ltd.	TBD						Fitted	
1	P4	Battery Minus Pole		Big Kaiser Precision Tooling Ltd.	TBD						Fitted	
1	R113	100M	±5%	Stackpole Electronics Inc.	HMC0402JT100M		0.063W, 1/16W		-55°C ~ 125°C		Fitted	
4	R2, R3, R100, R110	47k	±5%	Vishay Dale	CRCW020147K0JNED	0201 (0603 Metric)	0.05W, 1/20W	±200ppm/°C	-55°C ~ 155°C		Fitted	
1	R4	1k0	±5%	Vishay Dale	CRCW02011K0JNED	0201 (0603 Metric)	0.05W, 1/20W	±200ppm/°C	-55°C ~ 155°C		Fitted	
1	RN1	4 x 100	±5%	Panasonic Electronic Components	EXB-NB101JX	0804, Concave, Long Side T		±200ppm/°C	-55°C ~ 125°C		Fitted	
1	T1			NXP USA Inc.	PMZ950UPELYL	SC-101, SOT-883			-55°C ~ 150°C (TJ)		Fitted	
1	T2	NX3008NBKMB		NXP Semiconductors	NX3008NBKMB,315	3-XFPFN			-55°C ~ 150°C (TJ)		Fitted	
1	U1	nRF52832-CIAA		Nordic Semiconductor	nRF52832-CIAA	WLCS_P_C50					Fitted	
1	U2	MSP430FG479IZQ WR		Texas Instruments	MSP430FG479IZQWR	113-VFBGA			-40°C ~ 85°C (TA)		Fitted	
4	H5, H6, H7, H8	Plated Hole									Fitted	No
1	M1	Battery Housing									Fitted	No
2	M2, M3	Fiducal 0.8 mm									Fitted	No
8	TP1, TP2, TP3, TP6, TP7, TP10, TP14, TP15										Fitted	No
13	TP4, TP5, TP8, TP9, TP11, TP12, TP13, TP16,										Fitted	No
1	U3	Display and Zebra Cc		Big Kaiser Precisiontooling Ltd.	TBD						Fitted	No
0	C14	??	±0.1pF	Johanson Technology Inc.	500R0751R2BV4T	0402 (1005 Metric)		COG, NPO	-55°C ~ 125°C	50V	Not Fitted	
0	J1	H9173DKR-ND		Hirose Electric (HRS)	W.FL-R-SMT-1(10)						Not Fitted	
0	R1	NC (47k)	±5%	Vishay Dale	CRCW020147K0JNED	0201 (0603 Metric)	0.05W, 1/20W	±200ppm/°C	-55°C ~ 155°C		Not Fitted	