

	pcs	shop	part number	mouser link	Value	Description	Remark
buzzer	1	Mouser		<a href="http://www.mouser.de/ProductDetail/DB-Unlimited/IE092705-1/?qs=sGAEpiMZZMsK322k1rNFicgPmjD3DTzEp%2FDySc6GeWYtvlEr%252bCRQ%3d%3d">http://www.mouser.de/ProductDetail/DB-Unlimited/IE092705-1/?qs=sGAEpiMZZMsK322k1rNFicgPmjD3DTzEp%2FDySc6GeWYtvlEr%252bCRQ%3d%3d</a>	buzzer	5V with generator	max. diameter 14, raster 7.50
C1, C4, C5, C6, C7, C14, C16	7	Mouser	497-IE092705-1	<a href="http://www.mouser.de/Search/ProductDetail.aspx?R=K104K15X7RF5UH5virtualkey5942000virtualkey594-K104K15X7RF5UH5">http://www.mouser.de/Search/ProductDetail.aspx?R=K104K15X7RF5UH5virtualkey5942000virtualkey594-K104K15X7RF5UH5</a>	100nF	monolithic capacitor	raster 5.08
C12	1	Mouser	594-K104K15X7RF5UH5	<a href="http://www.mouser.de/ProductDetail/Vishay-BC-Components/K220J10C0GF5UH5/?qs=sGAEpiMZZMsh%252b1woXyUxj9nJp%252b8gpHztXIKBUu3qv%252bs%3d">http://www.mouser.de/ProductDetail/Vishay-BC-Components/K220J10C0GF5UH5/?qs=sGAEpiMZZMsh%252b1woXyUxj9nJp%252b8gpHztXIKBUu3qv%252bs%3d</a>	22p	ceramic capacitor	raster 5.08
C2, C3	2	Mouser	594-K220J10C0GF5UH5	<a href="http://www.mouser.de/Search/ProductDetail.aspx?R=140-500N5-150J-RCvirtualkey2198000virtualkey140-500N5-150J-RC">http://www.mouser.de/Search/ProductDetail.aspx?R=140-500N5-150J-RCvirtualkey2198000virtualkey140-500N5-150J-RC</a>	15pF	ceramic capacitor	raster 5.08
C8, C15	2	Mouser	140-500N5-150J-RC	<a href="http://www.mouser.de/ProductDetail/Nichicon/USR1A101MD7/?qs=111h9%2f8eNcB%2f-%252b1aUzKngg%3d%3d">http://www.mouser.de/ProductDetail/Nichicon/USR1A101MD7/?qs=111h9%2f8eNcB%2f-%252b1aUzKngg%3d%3d</a>	100u/10V	electrolytic capacitor	raster 2.54, diameter ~7, max. height ~10
C9	1	Mouser	647-USR1A101MDD	<a href="http://www.mouser.de/ProductDetail/Murata-Electronics/DEA1X3F150JP3A/?qs=sGAEpiMZZMsh%252b1woXyUxjwGE0GWwww1mCgRqgjIOQg%3d">http://www.mouser.de/ProductDetail/Murata-Electronics/DEA1X3F150JP3A/?qs=sGAEpiMZZMsh%252b1woXyUxjwGE0GWwww1mCgRqgjIOQg%3d</a>	22p/500V	high voltage ceramic capacitor	raster 5.08
CON3	1	Mouser	81-DEA1X3F150JP3A	<a href="http://www.mouser.de/ProductDetail/Omron-Electronics/XM7D-0512/?qs=sGAEpiMZZMulM8LPOQ%252bykWA5NgHG6U67nV81PdmG6Ec3PvMf6G6mq%3d%3d">http://www.mouser.de/ProductDetail/Omron-Electronics/XM7D-0512/?qs=sGAEpiMZZMulM8LPOQ%252bykWA5NgHG6U67nV81PdmG6Ec3PvMf6G6mq%3d%3d</a>	MiniUSB-B	mini usb b type connector, angle	5 pin, standard, THT
D1	1	Mouser	653-XM7D-0512	<a href="http://www.mouser.de/ProductDetail/Lite-On/LTL-4296N/?qs=sGAEpiMZZMuUGkcRtBnQOKmisX9IELgy">http://www.mouser.de/ProductDetail/Lite-On/LTL-4296N/?qs=sGAEpiMZZMuUGkcRtBnQOKmisX9IELgy</a>	LED	3mm, in your favourite colour	
DZ1, DZ4, DZ5	3	Mouser	859-LTL-4296N	<a href="http://www.mouser.de/Search/ProductDetail.aspx?R=1N5231B-Bvirtualkey58300000virtualkey583-1N5231B-B">http://www.mouser.de/Search/ProductDetail.aspx?R=1N5231B-Bvirtualkey58300000virtualkey583-1N5231B-B</a>	5V1	Zener diode 5.1V	
DZ2, DZ3	2	Mouser	583-1N5231B-B	<a href="http://www.mouser.de/ProductDetail/Vishay-Semiconductors/BZX85B3V6-TR/?qs=sGAEpiMZZMvzziJfs9%252bUWc6yyIVRxOrK">http://www.mouser.de/ProductDetail/Vishay-Semiconductors/BZX85B3V6-TR/?qs=sGAEpiMZZMvzziJfs9%252bUWc6yyIVRxOrK</a>	3V6	Zener diode 3.6V	
IC2	1	Mouser	78-BZX85B3V6	<a href="http://www.mouser.de/ProductDetail/Fairchild-Semiconductor/LM358N/?qs=sGAEpiMZZMfChxnSjNA6Hvcxy4Obg07ftQkS3380Mo%3d">http://www.mouser.de/ProductDetail/Fairchild-Semiconductor/LM358N/?qs=sGAEpiMZZMfChxnSjNA6Hvcxy4Obg07ftQkS3380Mo%3d</a>	LM358N	dual operational amplifier	
L1	1	Mouser	512-LM358N	<a href="http://www.mouser.de/ProductDetail/Fastron/SMCC-N-100K-02/?qs=sGAEpiMZZMmsg%252b3WYCKU45muCuneYXkWiAHNTILQ%3d">http://www.mouser.de/ProductDetail/Fastron/SMCC-N-100K-02/?qs=sGAEpiMZZMmsg%252b3WYCKU45muCuneYXkWiAHNTILQ%3d</a>	10uH	inductor, axial	
L2	1	Mouser	434-SMCCN-100K-02	<a href="http://www.mouser.de/ProductDetail/Fastron/MICCS-220K-02/?qs=sGAEpiMZZMmsg%252b3WYCKU3Estp%252bO%2f4X7gakBXDPkBGs%3d">http://www.mouser.de/ProductDetail/Fastron/MICCS-220K-02/?qs=sGAEpiMZZMmsg%252b3WYCKU3Estp%252bO%2f4X7gakBXDPkBGs%3d</a>	22uH	inductor, axial	
R1	1	Mouser	434-MICCS-220K-02	<a href="http://www.mouser.de/ProductDetail/KOA-Speer/MF1-4LCT52R471J/?qs=sGAEpiMZZMfubZbdiBIBU%2fdU%2f2aMBLNYf4NMtgq%3d">http://www.mouser.de/ProductDetail/KOA-Speer/MF1-4LCT52R471J/?qs=sGAEpiMZZMfubZbdiBIBU%2fdU%2f2aMBLNYf4NMtgq%3d</a>	470	resistor 1/4W, 5%	
R10	1	Mouser	660-MF1/4LCT52R471J	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F200K/?qs=sGAEpiMZZMfubZbdiBIFho3SHfDXSty5MyXeGncVQ%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F200K/?qs=sGAEpiMZZMfubZbdiBIFho3SHfDXSty5MyXeGncVQ%3d</a>	200k	resistor 0.6W, 1%, metalized	
			279-LR1F200K				

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R11	1	Mouser	279-LR1F68K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F68K/?qs=sGAEpiMZZMtlubZbdhIBIFho3SHfDXStUfD5V4H2AY%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F68K/?qs=sGAEpiMZZMtlubZbdhIBIFho3SHfDXStUfD5V4H2AY%3d</a>	68k	resistor 0.6W, 1%, metalized	
R14, R21	2	Mouser	279-LR1F100K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F100K/?qs=sGAEpiMZZMtlubZbdhIBIFho3SHfDXStyHqsH%2fB6ENQ%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F100K/?qs=sGAEpiMZZMtlubZbdhIBIFho3SHfDXStyHqsH%2fB6ENQ%3d</a>	100k	resistor 0.6W, 1%, metalized	
R2	1	Mouser	660-MS1/4DCT52R1002	<a href="http://www.mouser.de/ProductDetail/KOA-Speer/MFS1-4DCT52R1002F/?qs=sGAEpiMZZMu61qfTUdNhG%2fDQaWzJ6c7PxO8WA%2fw0T2E%3d">http://www.mouser.de/ProductDetail/KOA-Speer/MFS1-4DCT52R1002F/?qs=sGAEpiMZZMu61qfTUdNhG%2fDQaWzJ6c7PxO8WA%2fw0T2E%3d</a>	10k	resistor 1/4W, 5%	
R20	1	Mouser	279-LR1F22K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F22K/?qs=sGAEpiMZZMu61qfTUdNhG0k3J%252b4UeQ2nzRx4YkCm43I%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F22K/?qs=sGAEpiMZZMu61qfTUdNhG0k3J%252b4UeQ2nzRx4YkCm43I%3d</a>	22k	resistor 0.6W, 1%, metalized	
R19	1	Mouser	279-LR1F33K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F1K0/?qs=sGAEpiMZZMu61qfTUdNhG0k3J%252b4UeQ2n0t8q6nOWP2U%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F1K0/?qs=sGAEpiMZZMu61qfTUdNhG0k3J%252b4UeQ2n0t8q6nOWP2U%3d</a>	33k		
R5, R6	2	Mouser	291-68-RC	<a href="http://www.mouser.de/ProductDetail/Xicon/291-68-RC/?qs=sGAEpiMZZMtlubZbdhIBIOeQLv1WbhugYUs4TfvO0%252b0%3d">http://www.mouser.de/ProductDetail/Xicon/291-68-RC/?qs=sGAEpiMZZMtlubZbdhIBIOeQLv1WbhugYUs4TfvO0%252b0%3d</a>	68	resistor 1/4W, 5%	
R7	1	Mouser	279-LR1F220K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/CFR16J1K5/?qs=sGAEpiMZZMtlubZbdhIBIOeQLv1WbhugYUs4TfvO0%252b0%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/CFR16J1K5/?qs=sGAEpiMZZMtlubZbdhIBIOeQLv1WbhugYUs4TfvO0%252b0%3d</a>	1k5	resistor 1/4W, 5%	
R9, R13	1	Mouser	279-LR1F220K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F220K/?qs=sGAEpiMZZMtlubZbdhIBIFho3SHfDXStMdh3%252bs1x%252bFE%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F220K/?qs=sGAEpiMZZMtlubZbdhIBIFho3SHfDXStMdh3%252bs1x%252bFE%3d</a>	220k	resistor 0.6W, 1%, metalized	
SW1, SW2, SW3	3	Mouser	506-2-1825027-0	<a href="https://www.mouser.de/Search/ProductDetail.aspx?R=2-1825027-0virtualkey50660000virtualkey506-2-1825027-0">https://www.mouser.de/Search/ProductDetail.aspx?R=2-1825027-0virtualkey50660000virtualkey506-2-1825027-0</a>	tact switch	angle with button height 5.85mm or more	switch
T1	1	Mouser	512-BS170D27Z	<a href="http://www.mouser.de/ProductDetail/Fairchild-Semiconductor/BS170_D27Z/?qs=sGAEpiMZZMshyDBzkT%2fW6u8DDnmpUwtixQcENp3p68%3d">http://www.mouser.de/ProductDetail/Fairchild-Semiconductor/BS170_D27Z/?qs=sGAEpiMZZMshyDBzkT%2fW6u8DDnmpUwtixQcENp3p68%3d</a>	BS170	n-mosfet, TO-92	
X1	1	Mouser	559-FOXS200-20-LF	<a href="http://www.mouser.de/ProductDetail/Fox/FOXSLF-200-20/?qs=sGAEpiMZZMsBj6bBr9Q9aRTaFt3VVGpId2PX1XJSqd4%3d">http://www.mouser.de/ProductDetail/Fox/FOXSLF-200-20/?qs=sGAEpiMZZMsBj6bBr9Q9aRTaFt3VVGpId2PX1XJSqd4%3d</a>	20MHz	crystal resonator, HC-49S	
CON1	1	Mouser	855-M20-9960246	<a href="http://www.mouser.de/ProductDetail/Harwin/M20-9960246/?qs=sGAEpiMZZMu61Jb8E8Cjr6PY1FLBqPV">http://www.mouser.de/ProductDetail/Harwin/M20-9960246/?qs=sGAEpiMZZMu61Jb8E8Cjr6PY1FLBqPV</a>	RS232	1x4 pin header, angle	optional, raster 2.54
CON2	1	Mouser	855-M20-9770246	<a href="http://www.mouser.de/ProductDetail/Harwin/M20-9770246/?qs=sGAEpiMZZMu61Jb8E8Cjr6PY1FLBqPV">http://www.mouser.de/ProductDetail/Harwin/M20-9770246/?qs=sGAEpiMZZMu61Jb8E8Cjr6PY1FLBqPV</a>	ISP	2x3 pin header, straight	optional, raster 2.54
VR1	1	Mouser	858-67WR10KLF	<a href="http://www.mouser.de/ProductDetail/BI-Technologies-TT-Electronics/67WR10KLF/?qs=sGAEpiMZZMvygUB3GLcD7f%252bTH1DfRowScE3Cd2W0EC0%3d">http://www.mouser.de/ProductDetail/BI-Technologies-TT-Electronics/67WR10KLF/?qs=sGAEpiMZZMvygUB3GLcD7f%252bTH1DfRowScE3Cd2W0EC0%3d</a>	10k	variable resistor, type 3296W	mount only with native I2C display
T2	1	Mouser	512-BS170D27Z	<a href="http://www.mouser.de/ProductDetail/Fairchild-Semiconductor/BS170_D27Z/?qs=sGAEpiMZZMshyDBzkT%2fW6u8DDnmpUwtixQcENp3p68%3d">http://www.mouser.de/ProductDetail/Fairchild-Semiconductor/BS170_D27Z/?qs=sGAEpiMZZMshyDBzkT%2fW6u8DDnmpUwtixQcENp3p68%3d</a>	BS170	n-mosfet, TO-92	mount only with native I2C display

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R3, R4	2	Mouser	660-MF1/4LCT52R222J	<a href="http://www.mouser.de/ProductDetail/KOA-Speer/MF1-4LCT52R222J/?qs=sGAEpiMZZMtiubZbdhIBiU%2fdU%2f2aMBiz8d3Ah9daE%3d">http://www.mouser.de/ProductDetail/KOA-Speer/MF1-4LCT52R222J/?qs=sGAEpiMZZMtiubZbdhIBiU%2fdU%2f2aMBiz8d3Ah9daE%3d</a>	2k2	resistor 1/4W, 5%	mount only with native I2C display
DISP1	1		buy somewhere else those ar	<a href="http://www.mouser.de/ProductDetail/mikroElektronika/MIKR-0E-55/?qs=sGAEpiMZZMuCISx1W3tuZnzw%252bFuT6CWS">http://www.mouser.de/ProductDetail/mikroElektronika/MIKR-0E-55/?qs=sGAEpiMZZMuCISx1W3tuZnzw%252bFuT6CWS</a>	Display	alphanumeric LCD 2x16 with additional expander*	only one display ... or none
or DISP2	1		e.g. aliexpress.com	<a href="http://www.mouser.de/ProductDetail/Newhaven-Display/NHD-0216CW-AB3/?qs=sGAEpiMZZMshRHSPq6ouVOr0%2fniF2uMHnmlhg/UytQ%2f4fxaTmON4NQ%3d%3d">http://www.mouser.de/ProductDetail/Newhaven-Display/NHD-0216CW-AB3/?qs=sGAEpiMZZMshRHSPq6ouVOr0%2fniF2uMHnmlhg/UytQ%2f4fxaTmON4NQ%3d%3d</a>	Display	alphanumeric LCD 2x16 with native I2C**	only one display ... or none
R15, R16	2				10M	resistor 0.6W, 1%, metalized	will be delivered
L3	1				10mH	inductor, vertical	will be delivered
R22	1		279-LR1F1K0	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F1K0/?qs=sGAEpiMZZMu61qfTUdNhgOk3J%252b4UeQ2n0t8q6nOWP2U%3d">http://www.mouser.de/ProductDetail/TE-Connectivity-Neohm/LR1F1K0/?qs=sGAEpiMZZMu61qfTUdNhgOk3J%252b4UeQ2n0t8q6nOWP2U%3d</a>	1k	resistor 0.6W, 1%, metalized	will be delivered
R17	1		279-LR1F33K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity/CFR16J33K/?qs=%2fha2pyFaduJ6rHsrYtyzKJS6hIRk52LfYEn2kzF4dNc%3d">http://www.mouser.de/ProductDetail/TE-Connectivity/CFR16J33K/?qs=%2fha2pyFaduJ6rHsrYtyzKJS6hIRk52LfYEn2kzF4dNc%3d</a>	33k	resistor 0.6W, 1%, metalized	will be delivered
R8	1		279-LR1F470K	<a href="http://www.mouser.de/ProductDetail/TE-Connectivity/LR1F470K/?qs=i669W3eHERXAbfHfTLqcA%3d%3d">http://www.mouser.de/ProductDetail/TE-Connectivity/LR1F470K/?qs=i669W3eHERXAbfHfTLqcA%3d%3d</a>	470k	resistor 0.6W, 1%, metalized	will be delivered
R12, R18	2				5M1	resistor 0.6W, 1%, metalized	will be delivered
Enclosure	1				KM-33B	machined at CNC	will be delivered
Distance	2				M2.5x10		will be delivered
Screw	4				M2.5x4		will be delivered
T3	1				MPSA44	high voltage NPN, darlington transistor, TO-92	will be delivered
GMTUBE	1				SBM-20 / STS-5 / BOB-33A	Geiger-Müller Tube, as specified	will be delivered
D2	1				UF4007	ultra fast rectifier diode, 1kV	will be delivered
Tube Holder	1						will be delivered
IC1	1				ATmega88P	avr microcontroller	will be delivered programmed
C10, C13	2				220n/630V	polypropylene or polieste capacitor	will be delivered, raster 15.24
C11	1				4n7	MKT, MKP or monolithyc capacitor	will be delivered, raster 5.08