

LocoBuffer-ProMini SMD 2.1

Ref Name	Qty	Component	Value	Package	Manufacturer	Reichelt Part Nr	Farnell Part Nr	Voelkner	Andere	Description
C1	1	Capacitor	10n	0603		WAL 0603B103K500				Capacitor
C4, C5	2	Capacitor	47p	0603		NPO-G0603 47P				Capacitor
C2, C6, C7, C13 C15,C16, C17, C18	8	Capacitor	100n	0603		KEM 0603 100N-2				Capacitor
C11, C19	2	Capacitor	22uF/35V	1206		GRM188R61A226M				Capacitor
C12, C14	2	Capacitor	4,7µ	0805		KEM X5R0805 4,7U				Capacitor
D2, D6	2	LED3MM	LED3MM	3mm		3034R1C-DSB-C LED EL 3-2000RT				LED3 mm, round, high intensity, red
D3, D7	2	LED3MM	LED3MM	3mm		LED EL 3-3200GR 3034G3C-DSB-A				LED3 mm, round, high intensity, green
D4, D5	2	DIODE_SMD	MBR0530T1G	SOD123		MBR0530T1G				Schottky Diode
F1	1	FUSE PTC SMD	PTC/100mA	1210		LITT MICROSM010				PTC-Fuse
IC1	1	FT230XS-U		SOP64P599X175-16N	FTDI Chip	FT230XS-U	2081321		Mouser 895-FT230XS-U	USB Interface IC USB to Basic Serial UART IC SSOP-16
IC2	1	LM317X	LM317L	SOT-89	TI		3008030			VOLTAGE REGULATOR
IC3	1	LM393N	LM393D	S0-8		LM 393 D SMD	2531381			COMPARATOR
IC4	1	78XXS	78L05	SOT-89		(L78L05ACU STM) MCP1804T5002IMB	2809953			VOLTAGE REGULATOR 5V LDO Voltage Regulator 5V
IC5	1	ATmega328-TQFP		SMD	Atmel	ATMEGA 328P-AU				8-bit AVR Microcontroller 8Kb Prog Flash
IC6	1	74xx1G08	74AHCT1G08	SOT23-5			3120350			AND-Gate
OK1, OK2	2	6N136	6N136, HCPL4502	DIP8-Gullwing		EL4502S(TA)-V				Opto Coupler with open collector
J1	1	520250-3		520250-3	Molex 95501-2661	(other height MEBP 6-6S)	1536490	Econ Connect MEB6/6PL Voelkner Y726811		RJ12 Connector 6/6P
J2	1	ML6	AVR ISP6	ML6		WSL 6G				Box Header, 6 pin
J4	1	MICRO USB		SMD horizontal		MIC USB BBU				Micro USB connector
JP1, JP2, JP3, JP4	4	JP1E		Octa-Pads		SL 1X40G 2,54				2pol JUMPER or wire bridge
L1	1	Ferrite	600R@100M	0603		BLM18AG 601				EMI Suppression Filter
R1, R11	1	Resistor SMD small	27R	0603		WAL WR06X27R0FTL				RESISTOR, European symbol
R2	1	Resistor SMD small	220K	0603		WAL WR06X2203FTL				RESISTOR, European symbol
R3	1	Resistor SMD small	22K	0603		WAL WR06X2202FTL				RESISTOR, European symbol
R4, R9, R12, R13, R23	5	Resistor SMD small	10K	0603		WAL WR06X1002FTL				RESISTOR, European symbol
R5	1	Resistor SMD small	47K	0603		WAL WR06X4702FTL				RESISTOR, European symbol
R6	1	Resistor SMD small	150K	0603		WAL WR06X1503FTL				RESISTOR, European symbol
R7, R14	2	Resistor SMD small	4K7	0603		WAL WR06X4701FTL				RESISTOR, European symbol
R8	1	Resistor SMD small	2k2 depends on luminosity	0603		WAL WR06X2201FTL				RESISTOR, European symbol
R10	1	Resistor SMD small	680R	0603		WAL WR06X6800FTL				RESISTOR, European symbol
R15	1	Resistor SMD small	560R	0603		WAL WR06X5600FTL				RESISTOR, European symbol
R16	1	Resistor SMD small	3k3	0603		WAL WR06X3301FTL				RESISTOR, European symbol
R18	1	Resistor SMD small	10k depends on luminosity	0603		WAL WR06X1002FTL				RESISTOR, European symbol
R19, R20	2	Resistor SMD small	2k2 depends on luminosity	0603		WAL WR06X2201FTL				RESISTOR, European symbol
R21	1	Resistor SMD small	10k depends on luminosity	0603		WAL WR06X1002FTL				RESISTOR, European symbol
R22	1	Resistor SMD small	82R	0603		WAL WR06X82R0FTL				RESISTOR, European symbol
S1	1	KMR2		SMD			1437636	KMR231 Voelkner S679772	Mouser 611-KMR231GLFS	Reset button, not neccessary, only for tests
T1	1	2N2222	BC846	SOT23-3		BC 846B SMD				NPN TRANSISTOR
X1	1	Resonator		CSTNE_V	CSTNE16M0V53C000R0 CSTNE16M0V51Z000R0	CSTCE 16,0	4242706			Resonator, 16,0 MHz,
	1	PCB			© Sim&IT				LocoBuffer-ProMini 2.1	SMD-Version of LocoBuffer-ProMini
	1	Case				SP 2090 SW				