

129009 Mastering Microcontrollers CH11 BOM v1.3

Description	Manufacturer	Reference	Footprint	Designation	Qty	Farnell	
<i>Resistor</i>							Resistor
330 Ω, 5%, 0.25W			axial	R1	1		R1 = 330 Ω, 5%, 0.25W
220 Ω, 5%, 0.25W			axial	R2	1		R2 = 220 Ω, 5%, 0.25W
2.2 kΩ, 5%, 0.25W			axial	R3, R4	2		R3, R4 = 2.2 kΩ, 5%, 0.25W
680 kΩ, 5%, 0.25W			axial	R5	1		R5 = 680 kΩ, 5%, 0.25W
100 Ω, 5%, 0.25W			axial	R6	1		R6 = 100 Ω, 5%, 0.25W
1 kΩ, 5%, 0.25W	Multicomp	MCF 0.25W 1K	axial	R8, R9, R12	3	9339051	R8, R9, R12 = 1 kΩ, 5%, 0.25W
10 kΩ, 5%, 0.25W	Multicomp	MCF 0.25W 10K	axial	R7, R10, R11	3	9339060	R7, R10, R11 = 10 kΩ, 5%, 0.25W
1 MΩ, 5%, 0.25W			axial	R13	1		
0 Ω			axial	R14	1		
LDR 200 kΩ	Exelitas	VT90N1		LDR1	1	2293503	LDR1 = LDR 200 kΩ
10 kΩ trimmer				P1	1	1227539	P1 = 10 kΩ trimmer
<i>Capacitor</i>							Capacitor
220 nF, X7R, 50 V	Multicomp	MCRR50224X7RK0050	5mm pitch	C1	1	1216441	C1 = 220 nF, X7R, 50 V
100 nF, Z5U, 50 V	Multicomp	MCRR50104Z5UM0050	5mm pitch	C2	1	1216445	C2 = 100 nF, Z5U, 50 V
4.7 nF			5mm pitch	C3	1		C3 = 4.7 nF
10 μF, 16 V			2.54mm pitch	C4, C5, C6	3		C4, C5, C6 = 10 μF, 16 V
<i>Semiconductor</i>							Semiconductor
1N5819	Diodes Inc	1N5819-T	DO41-10	D1, D2	2	1843714	D1, D2 = 1N5819
1N4148		1N4148	DO-35	D3, D4, D5, D6, D7, D8	6		D3, D4, D5, D6, D7, D8 = 1N4148
LED, green, 5 mm	Kingbright	L-1503GD		LED1	1	2335726	LED1 = LED, green, 5 mm
IR LED, 940 nm, 5 mm	Multicomp	OFL-5102		LED2	1	1716710	LED2 = IR LED, 940 nm, 5 mm
BC547C	On Semiconductor	BC547CZL1G	TO-92	T1	1	9558578	T1 = BC547C
IRL540	Vishay Siliconix	IRL540	TO-220AB	T2, T3	2	8651078	T2, T3 = IRL540
TSOP34836	Vishay	TSOP34836		IC1	1	4913127	IC1 = TSOP34836
DS18B20	Maxim	DS18B20+	TO-92	IC2	1	1187948	IC2 = DS18B20
MPX4115A	Freescale			IC3	1	1457150	IC3 = MPX4115A
SHT11	Sensirion			IC4	1	1590511	IC4 = SHT11
MLX90614AAA	Melexis			IC5	1		IC5 = MLX90614AAA
<i>Misc.</i>							Misc.
Push button 6x6 mm	Alps	SKHHAMA010		S1, S2, S3	3	1656424	S1, S2, S3 = Push button 6x6 mm
Electret microphone, 6 mm	Kingstate	KECG2742PBL-A	through-hole	MIC1	1	1502742	MIC1 = Electret microphone, 6 mm
Pin header 1x2, 2.54 mm			through-hole 2.54 mn	JP1			JP1 = Pin header 1x2, 2.54 mm
Pin header 1x3, 2.54 mm			through-hole 2.54 mn	JP2			JP2 = Pin header 1x3, 2.54 mm
Pin header 1x6, 2.54 mm			through-hole 2.54 mn	K2, K3			K2, K3 = Pin header 1x6, 2.54 mm
Pin header 1x8, 2.54 mm			through-hole 2.54 mn	K4, K5			K4, K5 = Pin header 1x8, 2.54 mm
PCB terminal block, 6-way, 2.54 mm	Phoenix Contact	MPT 0,5/ 6-2,54 (1725698)	MPT05_6	K1	1	3041426	K1 = PCB terminal block, 6-way, 2.54 mm
LCD 2x16 with backlight	Midas	MC21605G6WD-SPTLY		LCD1	1	2063236	LCD1 = LCD 2x16 with backlight
Pin header 1x16, 2.54 mm	Fisher Elektronik	SL1.025.16Z	through-hole 2.54 mn	K6			K6 = Pin header 1x16, 2.54 mm
Pin socket, breakable, 1 row, 36-way, vertical	Fisher Elektronik	BL1.36Z	EPP-SIL-F-xxx	For LCD	1	9728856	For LCD = Pin socket, breakable, 1 row, 36-way, vertical
Buzzer 12 mm	Pro Signal	ABT-410-RC	through-hole 6.5 mm	BUZ1	1	1022402	BUZ1 = Buzzer 12 mm
Jumper	FCI	68786-202	n/a		2	1654800	Jumper
Pin header, breakable, 1 row, 40-way, vertical	TE Connectivity	4-103321-8	EPP-SIL-M-xxx	For JP1, JP2, K2-6	1	1098454	For JP1, JP2, K2-6 = Pin header, breakable, 1 row, 40-way, vertical
PCB 129009-1 v1.3					1		PCB 129009-1 v1.3