







LP1: Bare-PCB
KL1: Small material



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Bill of Materials

Datum:	10. August 2024
Zeit:	23:24:50
Variante:	Variant of BERT2-06-SHO-BASIC
Bezeichnung:	BERT-2
Revision:	0.6

Quantity	Designator	Footprint	Bemerkung	Value	MFT	Order-code	shotech
1	BU1	DC10B - slot		DC005		DC005-Gelb	923
1	X2	2X25	2x25pol. Buchsenleiste, gerade, RM 2,54, Höhe: 8,5mm	CON-50	frei	BL 2X25G8 2,54	1656
2	U10, U18	N016	3-Line to 8-Line Decoder / Demultiplexer	74LS138N	NXP	74LS138N	1540
2	U9, U11	N016	6-bit buffers and line drivers, N0016A, TUBE	SN74LS368AN	Texas Instruments	SN74LS368AN	1567
1	U6	PDIP28	8KB x 8 EPROM - Monitor - Z8-BASIC-Mini-ASM	M27C64		M27C64	1302
1	C1	CAPPR2-5x11 - RM2.5	10uF/50V/20%/RM2.5/105 °C /2000h	10uF/50V	Chang	RL1H100MC110B25CEH	1339
1	C6	CAPPR2-5x11 - RM2.5	22uF/63V/20%/2000h/RM2.5/85 °C	22uF/63V	Samwha	SD1J226M05011PC359	1338
1	X1	AK500/2	AR-Klemmen 250V 2pol grau	ARK500/2	PTR-Messtechnik	AK500/2DS-5,0-V/GRAU	1576
1	C21	CAP_Radial_5MM	CAP CER 1UF 50V X7R RADIAL	1uF	KEMET	C330C105M5R5CA7303	1414
1	CS2		Circuit socket DIP24-LC	Circuit socket DIP24-LC	ASS	A 24-LC-TT	1815
2	CS1, CS4		Circuit socket DIP28-PZ	Circuit socket DIP28-LC	ASS	AR28-HZL-TT	1328
1	CS3		Circuit socket DIP40	Circuit socket DIP40	ASS	A 40-LC-TT	1582
1	D1	DO-35	Dioden (Allzweck, Leistung, Schaltung) Vr/75V Io/150mA T/R	1N4148	On Semiconductors	1N4148TR	1594
1	SW1	DIP-12	DIP/DIL-Schalter Standard 6pol.	EDG06S	ECE Excel Cell	EDG06S	1572
1	U19	N014	Dual 4-Input Positive-AND Gate DIP14	SN74LS21N	Texas Instruments	SN74LS21N	
5	W1, W2, W3, W5, W6	JP2	Jumper 3pin	Jumper 3pin	frei	frei	1564
1	W4	JP1	Jumper RM2,54, rot	JUMP-RT		JUMP-RT	1564
12	C14, C15, C16, C20, C29	CAP_Radial_5MM	X7R 5mm LS	100nF/50V	Vishay / BC Components	K104K15X7RF53H5	1347
2	C2, C3	CAP_Radial_2.54MM	Ker-Ko 22pF 100V RM2,54 5% NPO	22pF	RICHWELL	TCH2A220J05S205N	1586
2	C24, C25	CAPPR5-5x7	KS 33uF 25V 20% 5x7/2,5	33uF/25V	Chang Yang	KS1E330MC070B25CV0	1346
1	D3	LED3MM	LED diffus rot 80mcd 45° 3mm	LED 3mm ROT	Everlight	204-10SURD/S530-A3	1321
47	PP7, PP8, PP9, PP10, PP11,	PP-RTM1364E-Z	Lötstift quadr. 1,05x10mm verzinkt	RTM1364E-Z	Vogt	1364E.68	1570
3	U1, U4, U5	N020	FLIP-FLOPS	SN74LS373N	Texas Instruments	SN74LS373N	1593
1	Q1	HC49/4H_SMX	Quarze 7.3728MHz 20pF 30ppm -40C 85C	7,3728MHz	CTS Electronic Components	ATS073-E	1274
1	D2	DO41	Schottky Dioden & Gleichrichter 1.0A 40V	1N5819	Taiwan Semiconductor	1N5819 R0	1568
1	U3	PDIP24	SRAM 2KB x 8 Bit	BR6116-12	ROHM	BR6116-12	1318
1	U17	PDIP28	SRAM LLPow as 5V 32kx8 55ns DIP28	AS6C62256-55PCN	Alliance	AS6C62256-55PCN	1384
1	KK1		U-Kühlkörper Alu blank TO220 35x17x13	SK13/35/AL/220	Fischer Elektronik	SK13/35/AL/220	1592
1	U15	TO-220A - SK13 35	U-Reg +5V 1A TO220	TS7805CZ	Taiwan Semiconductor	TS7805CZ C0G	1573
4	R1, R3, R4, R21	RES10-7.8X2.8 - 2k2	WIDERSTAND, 207, axial, 1%	2k2	frei	RMGK002.2	1238
8	R14	RES10-7.8X2.8 - 3k3	WIDERSTAND, 207, axial, 1%	3k3			1589
1	R2	RES10-7.8X2.8	WIDERSTAND, 207, axial, 1%	4k7			1587
1	R20	RES10-7.8X2.8 - 330R	WIDERSTAND, 207, axial, 1%	330R			1588
1	U8	PDIP40	Z86C9116PSG Series 236 B RAM 16 MHz CMOS	Z86C9116PSG	Zilog	Z86C9116PSG	1225