

graphiCAL_2 BOM
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	Description	Type/Value	Comment	Reference	Pcs	Manufacturer	Distributor	Order code	Net price	Gross price
1	Integrated circuit	PIC18F67K22-I/PT	TQFP64	IC1	1	Microchip	ChipCad	MIC16908	1 980,00 Ft	2 514,60 Ft
2	Integrated circuit	48L512-I/SN	SOIC8	IC2	1	Microchip	ChipCad	MIC47673	1 260,00 Ft	1 600,20 Ft
3	Integrated circuit	RV-3049-C2	C2	IC3	1	MicroCrystal	Farnell	F_164-1060	2 113,00 Ft	2 683,51 Ft
4	Integrated circuit	FT230XQ-R	QFN16	IC6	1	FTDI	Farnell	F_208-1324	954,00 Ft	1 211,58 Ft
5	Integrated circuit	MAX1606EUA	SSOP8	IC7	1	Maxim	RET	R_38-31-10	1 418,00 Ft	1 800,86 Ft
6	Integrated circuit	MCP1702T-3302E/MB	SOT89	IC8	1	Microchip	ChipCad	MIC3853	230,00 Ft	292,10 Ft
7	Integrated circuit	MAX1811ESA+	SOIC8	IC9	1	Maxim	RET	R_38-25-75	1 560,00 Ft	1 981,20 Ft
8	LiPo accu	LP103454-PCM-LD	2000 mAh		1	EEMB	ChipCad	EEMB000	3 335,00 Ft	4 235,45 Ft
9	Ceramic capacitor	47pF	0805, 50V, 5%	C18, C19	2	NIC	RET	R_93-02-17	13,00 Ft	33,02 Ft
10	Ceramic capacitor	100pF	1206, 50V, 5%	C25	1	NIC	RET	R_93-00-26	24,00 Ft	30,48 Ft
11	Ceramic capacitor	10nF	1206, 50V, 5%	C10, C11, C12	3	NIC	RET	R_93-00-50	13,50 Ft	51,44 Ft
12	Ceramic capacitor	100nF	1206, 50V, 5%	C.....	14	NIC	RET	R_93-04-36	18,00 Ft	320,04 Ft
13	Ceramic capacitor	100nF	0805, 50V, 5%	C3	1	NIC	RET	R_93-02-37	19,00 Ft	24,13 Ft
14	Ceramic capacitor	1uF	1206, 50V, 5%	C6	1	NIC	RET	R_93-04-87	40,00 Ft	50,80 Ft
15	Ceramic capacitor	2,2uF	1206, 50V, 10%, X7R	C22, C23	2	Murata	RET	R_93-05-62	76,00 Ft	193,04 Ft
16	Ceramic capacitor	2,2uF	0805, 25V, 10%	C1	1	NIC	RET	R_93-04-30	21,00 Ft	26,67 Ft
17	Ceramic capacitor	10uF	1206, 25V, 10%	C27, C28	3	NIC	RET	R_93-05-53	47,00 Ft	179,07 Ft
18	Ceramic capacitor	100uF	1206, 6,3V, 20%	C9	1	NIC	RET	R_93-05-89	116,00 Ft	147,32 Ft
19	Connector	USB4105-GF-A	USB-C	CON3	1	GCT	Farnell	F_358-8205	354,00 Ft	449,58 Ft
20	Connector for display	SFV30R-1STE		CON4	1	Amphenol	Farnell	F_391-1306	287,00 Ft	364,49 Ft
21	Connector for accu	P125L-03(LF)		X1	1	TKP	RET	R_53-18-74	33,00 Ft	41,91 Ft
22	Connector for buzzer	P110I-02	male	CON1	1	TKP	RET	R_53-13-88	17,00 Ft	21,59 Ft
23	Connector for buzzer	H110-2	female		1	TKP	RET	R_53-12-40	15,00 Ft	19,05 Ft
24	Connector for buzzer	H110-X	contact		2	TKP	RET	R_53-12-39	17,00 Ft	43,18 Ft
25	Piezo buzzer	MZ35291BD	35 mm		1	Hitpoint	RET	R_65-09-40	378,00 Ft	480,06 Ft
26	Diode	MBR0540T1G	SOD123	D1	1	ONSEMI	RET	F_955-6923	128,00 Ft	162,56 Ft
27	Display	REX012864QYPPB	orange*		1	Raystar	ChipCad	RAY016	6 520,00 Ft	8 280,40 Ft
28	Ferrite bead	BLM31PG121SN1	1206	FB1	1	Murata	Farnell	F_267-2838	66,00 Ft	83,82 Ft
29	Incremental encoder	EVQ-WKA*			1	Panasonic	ALI EXPRESS?			0,00 Ft
30	Jog-dial	MCPL3-AC-V			1	Multicomp	Farnell	F_131-6992	842,00 Ft	1 069,34 Ft
31	Inductor	10uH	5*5 mm	L1	1	Vishay	Farnell	F_174-1316	327,00 Ft	415,29 Ft
32	Jumper (pinhead)	FOR CURRENT MEAS.	riht angle	JP1	1				10,00 Ft	12,70 Ft
33	Jumper		black		1		RET	R_53-14-29	23,00 Ft	29,21 Ft
34	LED	LTSTC150TBKT	1206, blue	LED2	1	Liteon	RET	R_46-01-85	40,00 Ft	50,80 Ft
35	LED	CKT	1206, red	LED1	1	Liteon	RET	R_46-01-45	35,00 Ft	44,45 Ft

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36	Push button	DTS 63N	160gf	PB2...PB45	43	Diptronics	RET	R_52-04-43	66,00 Ft	3 604,26 Ft
37	Push button	B3SL-1002P		PB1	1	Omron	Farnell	F_169-5875	230,00 Ft	292,10 Ft
38	SMD Resistor	27 Ω	0805, 1%	R18, R19	2	Yageo	RET	R_96-01-70	10,00 Ft	25,40 Ft
39	SMD Resistor	330 Ω	1206, 1%	R3	1	Yageo	RET	R_96-00-61	10,00 Ft	12,70 Ft
40	SMD Resistor	470 Ω	1206, 1%	R20	1	Yageo	RET	R_96-00-65	8,00 Ft	10,16 Ft
41	SMD Resistor	1 k Ω	1206, 1%	R12	1	Yageo	RET	R_96-00-73	12,00 Ft	15,24 Ft
42	SMD Resistor	10 k Ω	1206, 1%	R1, R5, R6, R7, R21	5	Yageo	RET	R_96-00-97	12,00 Ft	76,20 Ft
43	SMD Resistor	18 k Ω	1206, 1%	R16	1	Yageo	RET	R_96-01-03	13,00 Ft	16,51 Ft
44	SMD Resistor	33 k Ω	1206, 1%	R17	1	Yageo	RET	R_96-01-09	5,00 Ft	6,35 Ft
45	SMD Resistor	100 k Ω	1206, 1%	R2, R10	2	Yageo	RET	R_96-01-21	12,00 Ft	30,48 Ft
46	SMD Resistor	100 k Ω	0805, 1%	RB	2	Yageo	RET	R_96-02-56	10,00 Ft	25,40 Ft
47	SMD Resistor	910 k Ω	1206, 1%	R22, RT	2	Yageo	RET	R_96-01-44	4,00 Ft	10,16 Ft
48	SMD Resistor	1 M Ω	1206, 1%	R4, R9, R11	3	Yageo	RET	R_96-01-45	12,00 Ft	45,72 Ft
49	SMD Resistor	2 M Ω	1206, 1%	R8	1	Yageo	RET	R_92-01-64	4,00 Ft	5,08 Ft
50	Socket for CR2016			BAT1	1	Keystone	RET	R_65-15-09	189,00 Ft	240,03 Ft
51	Battery for RTC	CR2016			1				200,00 Ft	254,00 Ft
52	MOSFET	2N7002	SOT23	Q1	1	Diotec	RET	R_44-01-93	19,00 Ft	24,13 Ft
53	PCB	graphical_2			1	UniPCB			10 000,00 Ft	12 700,00 Ft
54	Space holder PCB		etched PCB		1	UniPCB			5 000,00 Ft	6 350,00 Ft
55	Case (upper)				1				5 000,00 Ft	6 350,00 Ft
56	Case (lower)				1				5 000,00 Ft	6 350,00 Ft
57	Knob				1				100,00 Ft	127,00 Ft
58	Srew				2				10,00 Ft	25,40 Ft
59	Srew				2				10,00 Ft	25,40 Ft
60	Keyboard layout	see: kovax.co.hu			1					
										65 565,66 Ft
	Display	REX012864QSPP3N0	sky blue*			Raystar			6 747,00 Ft	
	Display	REX012864QWPP3N0	white			Raystar			7 248,00 Ft	
	2024. 09. 08.		*:OUT OF STOCK							