MuKOB IF-Mk V - Costed BOM (Options Broken Out)

Item	References	Value	Footprint	Quantity Total	Cost Each	Base	Base Cost	Key Jack 1/8	K18 Cost	Sndr/Loop Power	SLPS Cost	LED (Vis) Sounder	L(VS) Cost	RPi Conn	RPC Cost
1	C3, C6, C7, C8, C9, C11, C12, C13, C14	0.1u	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	9	$ 0.02	8	$ 0.16		$ -	1	$ 0.02		$ -	-1	$ (0.02)
2	C5, C10	1.0u	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	2	$ 0.02	2	$ 0.04		$ -		$ -		$ -		$ -
3	C1	10u	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1	$ 0.02	1	$ 0.02		$ -		$ -		$ -	-1	$ (0.02)
4	C2	47u	C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1	$ 0.05	1	$ 0.05		$ -		$ -		$ -	-1	$ (0.05)
5	C4	10uf	CP_Radial_D8.0mm_P5.00mm	1	$ 1.40	0	$ -		$ -	1	$ 1.40		$ -		$ -
6	R7, R8, R12, R13	20k	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	4	$ 0.03	4	$ 0.12		$ -		$ -		$ -		$ -
7	R3, R4	470	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	$ 0.03	0	$ -		$ -		$ -	1	$ 0.03		$ -
8	R5, R6	27	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	2	$ 0.03	2	$ 0.06		$ -		$ -		$ -	-2	$ (0.06)
9	R9, R10	10k	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	2	$ 0.03	2	$ 0.06		$ -		$ -		$ -		$ -
10	R11, R16	4.7k	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	2	$ 0.03	2	$ 0.06		$ -		$ -		$ -		$ -
11	R14, R15	47k	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	2	$ 0.03	2	$ 0.06		$ -		$ -		$ -		$ -
12	R1	1k	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	$ 0.03	0	$ -		$ -		$ -	1	$ 0.03		$ -
13	R2	0-S	R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1	$ 0.03	1	$ 0.03		$ -		$ -		$ -	-1	$ (0.03)
14	L1	600RJ0.5A	L_0805_2012Metric_Pad1.15x1.40mm_HandSolder	1	$ 0.15	1	$ 0.15		$ -		$ -		$ -		$ -
15	D4, D5, D6, D7, D8	1N4148	D_SOD-123	5	$ 0.05	5	$ 0.25		$ -		$ -		$ -		$ -
16	D1, D2, D3	MBR0560LT1G	D_SOD-123	3	$ 0.12	3	$ 0.36		$ -		$ -		$ -		$ -
17	D9	MBR180S1	D_SOD-123	1	$ 0.12	1	$ 0.12		$ -		$ -		$ -		$ -
18	D10	1N4007	D_SOD-123	1	$ 0.08	1	$ 0.08		$ -		$ -		$ -		$ -
19	U1	LM393ADR	SOIC-8_3.9x4.9mm_P1.27mm	1	$ 0.40	1	$ 0.40		$ -		$ -		$ -		$ -
20	U2	FT231XQ	QFN-20-1EP_4x4mm_P0.5mm_EP2.5x2.5mm	1	$ 3.40	1	$ 3.40		$ -		$ -		$ -	-1	$ (3.40)
21	BR1	HDS20M	AES-BridgeRect-HDS20M-13-1KV-2A	1	$ 0.30	0	$ -		$ -	1	$ 0.30		$ -		$ -
22	JP4	KeyJack-NP	PinHeader_1x02_P2.54mm_Vertical	1	$ 0.01	1	$ 0.01		$ -		$ -		$ -		$ -
23	JP5	SNBR EN	PinHeader_1x02_P2.54mm_Vertical	1	$ 0.01	1	$ 0.01		$ -		$ -		$ -		$ -
24	JP6	Shield-GND	PinHeader_1x02_P2.54mm_Vertical	1	$ 0.01	1	$ 0.01		$ -		$ -		$ -		$ -
25	LED1	VIS_SNDR	AES-LED_SMD_SIDEVIEW_Harvatek	1	$ 0.10	0	$ -		$ -		$ -	1	$ 0.10		$ -
26	LED2	RX	AES-LED_SMD_SIDEVIEW_Harvatek	0	$ 0.10	0	$ -		$ -		$ -		$ -		$ -
27	OP1	LPWR-EPWR	PinHeader_1x03_P2.54mm_Vertical	1	$ 0.03	0	$ -		$ -	1	$ 0.03		$ -		$ -
28	Q1	MMBT3904	SOT-23	1	$ 0.04	0	$ -		$ -		$ -	1	$ 0.04		$ -
29	Q2	G01N20LE	SOT-23	1	$ 0.35	1	$ 0.35		$ -		$ -		$ -		$ -
30	ST1	SNDR/KOB	AES-TermBlock-2POS-5mm-Horz	1	$ 0.35	1	$ 0.35		$ -		$ -		$ -		$ -
31	ST2	LOOP CUR LIMIT	AES-TermBlock-2POS-5mm-Horz	1	$ 0.35	1	$ 0.35		$ -		$ -		$ -		$ -
32	J2	LOOP PWR	AES-CUI_PJ-037B	1	$ 0.70	0	$ -		$ -	1	$ 0.70		$ -		$ -
33	J3	KEY-PADDLE-1_8	AES-CUI_SJ1-3534NG-audio-jack	1	$ 1.50	0	$ -	1	$ 1.50		$ -		$ -		$ -
34	J4	USB-Conn	AES-USB_C_Amphenol_GSB1C4621DSHR	1	$ 0.45	1	$ 0.45		$ -		$ -		$ -	-1	$ (0.45)
35	J5	RPi-GPIO40	2x20 Socket Header	1	$ 3.50	0	$ -		$ -		$ -		$ -	1	$ 3.50
36	PCB	MuKOB IF MkV	PCBWay	1	$ 7.50	1	$ 7.50		$ -		$ -		$ -		$ -
37	Board Insulator	vinyl	Cricut	2	$ 1.00	2	$ 2.00		$ -		$ -		$ -	-1	$ (1.00)
38	Shield	Altoids Tin	(Modifications)	1	$ 3.00	1	$ 3.00		$ -		$ -		$ -		$ -
39	Connector Faceplate	MkV Face	Spring-Steel SendCutSend	1	$ 1.00	1	$ 1.00		$ -		$ -		$ -	-1	$ (1.00)
40	Mounting Hardware		#6 SS Screws, washers, nuts (set)	1	$ 2.00	1	$ 2.00		$ -		$ -		$ -	-1	$ (2.00)
							$ -		$ -		$ -		$ -		$ -
Totals				**62**		**51**	**$ 22.45**	**1**	**$ 1.50**	**5**	**$ 2.45**	**4**	**$ 0.20**	**-10**	**$ (4.53)**

'Full' (Non-Rpi) >>> Base + 1/8" Key Jack + Sndr Pwr + LED(VisSndr) — **$ 26.60**

'LoopPwr' (Non-Rpi) >>> Base + Sndr Pwr — **$ 24.90**

'Minimum' (Non-Rpi) >> Base Only (No: Key Jack, Power, LED) — **$ 22.45**