

CAPI HPA500 Main Rev A PCB BOM

Resistors (Metal Film)					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
4	R11	82R	.25W 1% MF	Xicon	271-82-RC
	R14	82R			
	R15	82R			
	R18	82R			
2	R27	330R precision	.4W 0.1% MF	Vishay	MBB 0207-25 0.1% C1 330R
	R28	330R precision			
2	R13	887R (+10dB)	.25W 1% MF	Xicon	271-887-RC
	R17	887R (+10dB)			
For +5dB of gain, change R13 & R17 to 1k78					
For +12dB of gain, change R13 & R17 to 665R					
For +15dB of gain, change R13 & R17 to 454R					
2	R23	1k	.25W 1% MF	Xicon	271-1K-RC
	R24	1k			
2	R25	2k7	.25W 1% MF	Xicon	271-2.7K-RC
	R26	2k7			
2	R12	4k87	.25W 1% MF	Xicon	271-4.87K-RC
	R16	4k87			
4	R19	7k5	.25W 1% MF	Xicon	271-7.5K-RC
	R20	7k5			
	R21	7k5			
	R22	7k5			
4	R29	10k precision	.25W 0.1% MF	TE Connectivity	YR1B10KCC
	R30	10k precision			
	R34	10k precision			
	R37	10k precision			
4	R33	20k precision	.25W 0.1% MF	TE Connectivity	YR1B20KCC
	R35	20k precision			
	R36	20k precision			
	R38	20k precision			
4	R31	49k9	.25W 1% MF	Xicon	271-49.9K-RC
	R32	49k9			
	R39	49k9			
	R40	49k9			



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Resistors (Carbon Film)					
6	PR1	10R	.25W 5% CF	Xicon	291-10-RC
	PR2	10R			
	PR3	10R			
	PR4	10R			
	PR5	10R			
	PR6	10R			
11	R1	10R	1W 5% CF	Yageo	CFR1WSJT-52-10R
	R2	10R			
	R3	10R			
	R4	10R			
	R5	10R			
	R6	10R			
	R7	10R			
	R8	10R			
	R9	10R			
	R10	10R			
	R41	10R			

Diodes					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
4	CR1	1N914	Rectifier	Fairchild Semiconductor	1N914
	CR2	1N914			
	CR3	1N914			
	CR4	1N914			
2	CR5	1N4004	Rectifier	Fairchild Semiconductor	1N4004
	CR6	1N4004			
1	LED1	Green	2mm Lighthouse	Kingbright	WP13GD
1	LED2	Yellow	2mm Lighthouse	Kingbright	WP13YD

Transistors					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
2	Q1	TIP41AG	TO-220 NPN-BJT	ON Semiconductor	TIP41AG
	Q3	TIP41AG			
2	Q2	TIP42AG	TO-220 PNP-BJT	ON Semiconductor	TIP42AG
	Q4	TIP42AG			
4	Q1	TO-220 Style	Clip Heatsink	Aavid Thermalloy	6236BG
	Q2				
	Q3				
	Q4				

Operational Amplifiers					
Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
3	A1	DIP8 Socket	Gold Contact	Mill-Max	110-43-308-41-001000
	A2				
	A3				
2	A1	IC Opamp	Single Channel IC	Texas Instruments	OPA134PA
	A2				
1	A3	IC Opamp	Dual Channel IC	Texas Instruments	OPA2134PA



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Capacitors

Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
4	C21	39pF, 50V	COG Ceramic	BC	K390J15C0GF5TL2
	C22	39pF, 50V			
	C25	39pF, 50V			
	C26	39pF, 50V			
2	C5	82pF, 50V	COG Ceramic	BC	K820J15C0GF5TL2
	C6	82pF, 50V			
6	C12	.1μF, 50V	X7R Ceramic	BC	K104K15X7RF5TL2
	C13	.1μF, 50V			
	C16	.1μF, 50V			
	C17	.1μF, 50V			
	C20	.1μF, 50V			
	C23	.1μF, 50V			
2	C2	.1μF, 63V	Film	WIMA	MKS2-.1/63/5
	C4	.1μF, 63V			
4	C27	47μF, 16V, BP	Radial, Electrolytic	Nichicon	UES1C470MPM1TD
	C28	47μF, 16V, BP			
	C29	47μF, 16V, BP			
	C30	47μF, 16V, BP			
12	C1	100μF, 25V	Radial, Electrolytic	Nichicon	UHE1E101MED1TD
	C3	100μF, 25V			
	C7	100μF, 25V			
	C8	100μF, 25V			
	C9	100μF, 25V			
	C10	100μF, 25V			
	C11	100μF, 25V			
	C14	100μF, 25V			
	C15	100μF, 25V			
	C18	100μF, 25V			
	C19	100μF, 25V			
	C24	100μF, 25V			

Switches

Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
2	SW1	4PDT	Pushbutton	Toneluck	MPN-S4-A
	SW2	4PDT			
2	SW1	White	Pushbutton Cap	E-Switch	1RWHT
	SW2	White			



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Miscellaneous

Part # Qty	Position	Value	Type	Manufacturer	Man. Part#
2	JP1	1/4" Jack	Gold	Neutrik	NRJ6HF-AU
	JP2				
2	JP1	1/4" Jack	Washer	Neutrik	NRJ-WB
	JP2				
2	JP1	1/4" Jack	Knurled Nut	Neutrik	NRJ-NUT-MK
	JP2				
1	L Bracket		Aluminum	CAPI	HPA500 L-Bkt
1	Faceplate		Aluminum	CAPI	HPA500 Faceplate
1	****	PCB			HPA500 Rev A
1	Right Input	3-Pin XLR	F-F Coupler	Generic	

