

# Bill of Materials

TI DESIGNS

**TIPD122: 0.1-10Hz Amplifier Noise Measurement Filter Reference Design**

Item	QTY	Value	Ref Des	Description	Manufacturer	Part Number
1	18	0.1uF	C16, C17, C18, C19, C20, C21, C22, C23,	CAP, CERM, 0.1uF, 50V, +/-5%, X7R, 0805	AVX	08055C104JAT2A
2	2	4.7uF	C2, C3	CAP, CERM, 4.7uF, 16V, +/-20%, X7R, 1206	TDK	C3216X7R1C475M160AB
3	2	7.5n	C5, C6	CAP CER 7500PF 50V 5% NPO 0805	TDK	GRM2195C1H752JA01D
4	2	1uF	C11, C12	CAP, CERM, 1uF, 50V, +/-10%, X6S, 0805	TDK	C2012X6S1H105K085AB
5	4		H1, H2, H3, H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener	NY PMS 440 0025 PH
6	3		J1, J2, J3	Standard Banana Jack, Uninsulated, 5.5mm	Keystone	575-4
7	2		J4, J5	CONN BNC JACK R/A 50 OHM PCB	TE Connectivity	1-1634612-0
8	5		JMP1, JMP2, JMP3, JMP4, JMP5, JMP6, JMP7	CONN HEADER 50POS .100" SGL GOLD (cut as needed)	Samtec Inc	TSW-150-07-G-S
9	5	10	R1, R4, R14, R18, R20	RES 10.0 OHM 1/10W 0.1% 0805	TE Connectivity	1-1614884-7
10	5	10.0k	R2, R5, R15, R19, R21	RES 10K OHM 1/8W .1% 0805 SMD	Panasonic	ERA-6AEB103V
11	1	1.6M	R3	RES 1.6M OHM 1/10W 0.1% 0805	TE Connectivity	1-1614959-2
12	2	825k	R6, R11	RES 825K OHM 1/8W 0.5% 0805 SMD	Panasonic	ERA-6AED8253V
13	2	2.00Meg	R7, R8	RES, 2.00Meg ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW08052M00FKEA
14	1	162k	R9	RES 162K OHM 1/8W .1% 0805 SMD	Vishay-Dale	ERA-6AEB1623V
15	1	210k	R10	RES 210K OHM 1/8W .1% 0805 SMD	Panasonic	ERA-6AEB2103V
16	1	412k	R12	RES 412K OHM 1/8W .1% 0805 SMD	Panasonic	ERA-6AEB4123V
17	1	634k	R13	RES 634K OHM 1/8W .1% 0805 SMD	Panasonic	ERA-6AEB6343V
18	1	1.00k	R16	RES, 1.00k ohm, 1%, 0.125W, 0805	Panasonic	ERA-6AEB102V
19	1	9.09k	R17	RES 9.09K OHM 1/8W .1% 0805 SMD	Panasonic	ERA-6AEB9091V
20	1	49.9	R24	RES 49.9 OHM 1/8W .1% 0805 SMD	Panasonic	ERA-6AEB49R9V
21	1	0	R23	RES 0.0 OHM 1/8W JUMP 0805 SMD	Panasonic	ERJ-6GEY0R00V
22	0		R22	Optional for gain set, Do Not Populate for Gain=1		
23	1	GND	TP1	Test Point, TH, Compact, Black	Keystone	5006
24	1	Vs-	TP2	Test Point, TH, Compact, Yellow	Keystone	5009
25	1	Vs+	TP3	Test Point, TH, Compact, Red	Keystone	5005
26	4		U1, U2, U3, U4	IC SOCKET 8PIN MS TIN/TIN .300	Mill-Max	110-44-308-41-001000
27	4		U5, U6, U7, U8	IC OPAMP JFET 22MHZ 8SOIC	Texas Inst.	OPA827AID

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