

6 Bill of Materials (BOM), Layout, and Schematic

This section contains the complete BOM, printed circuit board (PCB) layouts, and schematic diagrams for the ADS131E08.

NOTE: Board layouts are not to scale. These figures are intended to show how the board is laid out; they are not intended to be used for manufacturing ADS131E08 PCBs.

6.1 Bill of Materials

Table 11 lists the bill of materials for the ADS131E08.

Table 11. ADS131E08 Bill of Materials

Item	Qty	Ref Des	Description	Manufacturer	Part Number
1	1	N/A	Printed Circuit Board	TI	6527354
2	15	C1, C2, C3, C4, C5, C6, C11, C17, C39, C40, C41, C44, C50, C68, C69	CAP CER 1UF 25V 10% X5R 0603	Murata	GRM188R61E105KA12D
3	0	C7, C8, C15, C19, C26, C28, C30, C32, C33, C34, C35, C36, C48, C54, C59	Not Installed		
4	1	C9	CAP CER 22UF 6.3V 10% X5R 0805	Taiyo Yuden	JMK212BJ226KG-T
5	11	C10, C37, C38, C42, C43, C46, C47, C52, C53, C57, C58	CAP CER 10UF 10V 10% X5R 0805	Murata	GRM219R61A106KE44D
6	10	C12, C13, C14, C16, C18, C49, C61, C62, C75, C76	CAP CER 0.1UF 50V 10% X7R 0603	Murata	GRM188R71H104KA93D
7	16	C20, C21, C22, C23, C24, C64, C65, C66, C67, C70, C71, C72, C73, C74, C77, C78	CAP CER 470PF 50V C0G 5% 0603	TDK	C1608C0G1H471J
8	0	C25, C27, C29	Not Installed		
9	0	C31	Not Installed		
10	4	C45, C51, C55, C56	CAP CER 2.2UF 6.3V 10% X5R 0603	Murata	GRM185R60J225KE26D
11	2	C60, C63	CAP CER 100UF 10V 20% X5R 1210	Taiyo Yuden	LMK325BJ107MM-T
12	0	D1–D16	Not Installed		
13	1	J1 (Top side)	10 Pin, Dual Row, SM Header (20 Pos.)	Samtec	TSM-110-01-T-DV-P
14	1	J1, J2 (Bottom side)	10 Pin, Dual Row, SM Header (20 Pos.)	Samtec	SSW-110-22-F-D-VS-K
15	1	J3 (Bottom side)	5 Pin, Dual Row, SM Header (10 Pos.)	Samtec	SSW-105-22-F-D-VS-K
16	0	J4	Not Installed		
17	8	J5–J12	TERMINAL BLOCK 3.5MM 2POS PCB	On Shore	ED555/2DS
18	8	JP1, JP5–JP11	3 Position Jumper .1" spacing	Samtec	TSW-103-07-T-S
19	0	JP2	Not Installed		
20	2	JP3, JP4	2 Position Jumper .1" spacing	Samtec	TSW-102-07-T-S
21	0	JP12	Not Installed		