

Component List

14B24

Version: [01] - Sample Production
Revision: V2
Date: 11/03/2025



Description: Sample Production

#	Designator	Description	Value	PCB Footprint	Manufacturer	Part Number	Sheet Number	Notes
1	C1	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
2	C2	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
3	C3	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
4	C4	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	10u	0805	MURATA	GRM21BR61E106KA73#	7	
5	C5	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
6	C6	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
7	C7	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
8	C8	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
9	C9	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
10	C10	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	10u	0805	MURATA	GRM21BR61E106KA73#	7	
11	C11	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
12	C12	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
13	C13	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	3	
14	C14	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 2000V	1n0	1206	AVX	1206GC102KA1A	3	
15	C15	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	3	
16	C16	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	3	
17	C17	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 2000V	1n0	1206	AVX	1206GC102KA1A	3	
18	C18	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	3	
19	C19	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X7R, 100V	100n	0603	MURATA	GRM188R61E106KA35#	4	
20	C20	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	390p	0402	MURATA	GRM155R71H391KA01D	4	
21	C21	Chip Multilayer Ceramic Capacitors for Automotive, 0805, 10%, X7R, 250V	10n	0805	TDK	CGA4J3X7R2E103K125AA	4	
22	C22	Chip Multilayer Ceramic Capacitors for Automotive, 0805, 10%, X7R, 250V	10n	0805	TDK	CGA4J3X7R2E103K125AA	4	
23	C23	1 µF ±10% 50V Condensatori ceramici X5R 0402 (1005 metrico)	1u	0402	MURATA	GRM155R61H105KE05D	4	
24	C24	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
25	C25	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 20%, X5R, 50V	10u	1206	MURATA	GRM31CR61H106MA12#	4	
26	C26	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	22u	0805	MURATA	GRM21BR61E225KE44#	4	
27	C27	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 50V	4u7	1206	MURATA	GRM31CR71H475KA12#	4	
28	C28	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 50V	4u7	1206	MURATA	GRM31CR71H475KA12#	4	
29	C29	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	4	
30	C30	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	10n	0402	MURATA	GRM155R71H103KA88#	4	
31	C31	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
32	C32	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
33	C33	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	470p	0402	MURATA	GCM1555C1H471FA16#	4	
34	C34	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
35	C35	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
36	C36	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226MO7JZNC	4	
37	C37	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
38	C39	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
39	C40	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226MO7JZNC	4	
40	C41	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	4u7	0603	MURATA	GRM188R61E475KE11#	4	
41	C42	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	4u7	0603	MURATA	GRM188R61E475KE11#	4	
42	C43	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
43	C44	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
44	C45	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	5	
45	C46	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	5	
46	C47	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
47	C48	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
48	C49	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	5	
49	C50	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	5	
50	C51	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	5	
51	C52	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
52	C53	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
53	C54	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
54	C55	1 µF ±10% 50V Condensatori ceramici X5R 0402 (1005 metrico)	1u	0402	MURATA	GRM155R61H105KE05D	5	
55	C56	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	8	
56	C57	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	8	
57	C58	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	8	
58	C59	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	8	
59	C60	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	8	
60	C61	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	22u	0805	MURATA	GRM21BR61E225KE44#	8	
61	C62	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	22u	0805	MURATA	GRM21BR61E225KE44#	8	
62	C63	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	47p	0603	MURATA	GRM1885C1H470FA01#	8	
63	C65	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	120p	0402	MURATA	GCM1555C1H121FA16#	8	
64	C66	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	160p	0603	KEMET	C0603C161F5GAC	8	
65	C68	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	10p	0603	MURATA	GCM1885C1H100FA16#	8	
66	C70	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X5R, 25V	2u2	0402	MURATA	GRM155R61E225KE11#	8	
67	C71	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	10n	0402	MURATA	GRM155R71H103KA88#	8	

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68	C72	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	150p	0603	KEMET	C0603C151F5GAC	8	
69	C73	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X5R, 25V	2u2	0402	MURATA	GRM155R61E225KE11#	8	
70	C74	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	10n	0402	MURATA	GRM155R71H103KA88#	8	
71	C75	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	22n	0402	MURATA	GRM155R71H223KA12#	8	
72	C76	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X5R, 25V	2u2	0402	MURATA	GRM155R61E225KE11#	8	
73	C77	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	10n	0402	MURATA	GRM155R71H103KA88#	8	
74	C78	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X7R, 25V	2u2	0805	MURATA	GRM21BR71E225KE11#	8	
75	C79	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	150p	0603	KEMET	C0603C151F5GAC	8	
76	C80	1 µF ±10% 50V Condensatori ceramici X5R 0402 (1005 metrico)	1u	0402	MURATA	GRM155R61H105KE05D	8	
77	C81	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	10n	0402	MURATA	GRM155R71H103KA88#	8	
78	C82	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	120p	0402	MURATA	GCM1555C1H121FA16#	8	
79	C83	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	160p	0603	KEMET	C0603C161F5GAC	8	
80	C85	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	10p	0603	MURATA	GCM1885C1H100FA16#	8	
81	C87	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	8	
82	C88	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	8	
83	C89	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	10n	0402	MURATA	GRM155R71H103KA88#	8	
84	C90	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X7R, 25V	2u2	0805	MURATA	GRM21BR71E225KE11#	8	
85	C91	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	47p	0603	MURATA	GRM1885C1H470FA01#	8	
86	C96	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
87	C97	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, ±5%, COG, 10V	100p	0402	MURATA	GRM0225C1A101JA02#	9	
88	C98	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, ±5%, COG, 10V	100p	0402	MURATA	GRM0225C1A101JA02#	9	
89	C103	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	10	
90	C104	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	10	
91	C105	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	10	
92	C106	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	10	
93	C107	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
94	C108	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
95	C109	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
96	C110	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	10u	0805	MURATA	GRM21BR61E106KA73#	10	
97	C111	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	10u	0805	MURATA	GRM21BR61E106KA73#	10	
98	C112	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
99	C113	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
100	C114	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
101	C115	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
102	C116	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
103	C117	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	10	
104	C118	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
105	C119	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
106	C120	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
107	C121	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
108	C122	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	10	
109	C123	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	10	
110	C124	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	11	
111	C125	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	11	
112	C126	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	11	
113	C127	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	11	
114	C128	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	3	
115	C129	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 5%, COG, 50V	1n0	0402	MURATA	GRM1555C1H102JA01#	11	
116	C200	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 2000V	1n0	1206	AVX	1206GC102KAT1A	3	
117	CON1	Easy-On FFC/FPC Connector, 1.00mm Pitch, Slider Series, Vertical, 5.75mm Height, 8 Circuits, Gold	52610-0872	MOLEX 526100871	MOLEX	52610-0872	3	
118	CON3	Easy-On FFC/FPC Connector, 1.00mm Pitch, Slider Series, Vertical, 5.75mm Height, 8 Circuits, Gold	52610-0872	MOLEX 526100871	MOLEX	52610-0872	3	
119	CON5	Easy-On FFC/FPC Connector, 1.00mm Pitch, Slider Series, Vertical, 5.75mm Height, 8 Circuits, Gold	52610-0872	MOLEX 526100871	MOLEX	52610-0872	3	
120	CON6	Easy-On FFC/FPC Connector, 1.00mm Pitch, Slider Series, Vertical, 5.75mm Height, 18 Circuits, Gold	52610-1872	MOLEX_526101872	MOLEX	52610-1872	3	
121	CON7	Header, Vertical Receptacle, 1.27 mm pitch; 0.50 mm lead width, 5 pins, 1 row, 5 pins per row, 6.75 mm L X 1.80 mm W X 4.55 mm H body	M50-3030542	SIP-5	HARWIN	M50-3030542	5	
122	CON8	Header, Vertical, 2.54 mm pitch; 0.64 mm lead width, 2 pins, 1 row, 2 pins per row, 5.08 mm L X 2.54 mm W X 8.54 mm H body	61300211121	SIP-2	WE	61300211121	5	
123	CON9	Header, Vertical Receptacle, 1.27 mm pitch; 0.50 mm lead width, 6 pins, 1 row, 6 pins per row, 8.02 mm L X 1.80 mm W X 4.55 mm H body	M50-3030642	SIP-6	HARWIN	M50-3030642	5	
124	CON10	Header, Vertical Receptacle, 1.27 mm pitch; 0.50 mm lead width, 8 pins, 1 row, 8 pins per row, 10.56 mm L X 1.80 mm W X 4.55 mm H body	M50-3030842	SIP-8	HARWIN	M50-3030842	5	
125	CON11	Header, Vertical Receptacle, 1.27 mm pitch; 0.50 mm lead width, 8 pins, 1 row, 8 pins per row, 10.56 mm L X 1.80 mm W X 4.55 mm H body	M50-3030842	SIP-8	HARWIN	M50-3030842	5	
126	CON14	Header, Vertical, 2.54 mm pitch; 0.64 mm lead width, 3 pins, 1 row, 3 pins per row, 7.62 mm L X 2.54 mm W X 8.54 mm H body	61300311121	SIP-3	WE	61300311121	11	
127	CON15	Header, Vertical Receptacle, 1.27 mm pitch; 0.50 mm lead width, 5 pins, 1 row, 5 pins per row, 6.75 mm L X 1.80 mm W X 4.55 mm H body	M50-3030542	SIP-5	HARWIN	M50-3030542	11	
128	CON16	Header, Vertical, 2.54 mm pitch; 0.64 mm lead width, 2 pins, 1 row, 2 pins per row, 5.08 mm L X 2.54 mm W X 8.54 mm H body	61300211121	SIP-2	WE	61300211121	11	
129	CON18	Header, Vertical, 2.54 mm pitch; 0.64 mm lead width, 3 pins, 1 row, 3 pins per row, 7.62 mm L X 2.54 mm W X 8.54 mm H body	61300311121	SIP-3	WE	61300311121	11	
130	CON100	Header, Vertical, 2.54 mm pitch; 0.64 mm lead width, 2 pins, 1 row, 2 pins per row, 5.08 mm L X 2.54 mm W X 8.54 mm H body	61300211121	SIP-2	WE	61300211121	5	
131	D1	Schottky Diode 40V, 2A	PMEG4020ETP_11	SOD-128	NXP	PMEG4020ETP_11	3	
132	D2	Transil, Bidirectional, SMA, 600W	SMA6J36CA	SMA	LittleFUSE	SMA6J36CA	3	
133	D3	Transil, Bidirectional, SMA, 600W	SMA6J36CA	SMA	LittleFUSE	SMA6J36CA	3	
134	D4	Transil, Bidirectional, SMA, 600W	SMA6J36CA	SMA	LittleFUSE	SMA6J36CA	3	
135	D5	High Voltage Surface-Mount Schottky Barrier Rectifier	SS2PH10-M3/84A	DO-220AA	VISHAY	SS2PH10-M3/84A	4	
136	D6	Zener Diode, 12V	BZV55-C12	MiniMELF	NXP	BZV55-C12	6	
137	D7	Small Signal Schottky Diodes	MCL101A	MicroMELF	VISHAY	MCL101A	6	
138	D8	Zener Diode, 12V	BZV55-C12	MiniMELF	NXP	BZV55-C12	6	
139	D9	Small Signal Schottky Diodes	MCL101A	MicroMELF	VISHAY	MCL101A	6	
140	D10	Schottky Diode	BAT54	SOT23-3	NXP	BAT54	5	
141	D11	High-speed switching diode	BAS16J	SOD323F	NXP	BAS16J	3	
142	D12	Schottky Diode	BAT54	SOT23-3	NXP	BAT54	10	
143	DL1	Green SMD LED, 0603	LEDG	0603	AVAGO	HSMG-C191	13	
144	DL2	Green SMD LED, 0603	LEDG	0603	AVAGO	HSMG-C191	13	
145	DL3	Green SMD LED, 0603	LEDG	0603	AVAGO	HSMG-C191	11	

#	Designator	Description	Value	PCB Footprint	Manufacturer	Part Number	SheetN umber	Notes
146	DL4	Yellow SMD LED, 0603	LEDY	0603	AVAGO	HSMY-C191	11	
147	F1	3 A 63 V AC 63 V DC Fuse Board Mount (Cartridge Style Excluded) Surface Mount 1206 (3216 Metric)	0685T3000-01	1206	BELFUSE	0685T3000-01	3	
148	F2	PolySwitch Resettable Device, decaSMDc series	decaSMDc050F/60	2018	LITTELFUSE	decaSMDc050F/60	3	
149	IC1	4-Pin Phototransistor Optocoupler	TLP293	nSOIC-4	TOSHIBA	TLP293	6	
150	IC2	4-Pin Phototransistor Optocoupler	TLP293	nSOIC-4	TOSHIBA	TLP293	6	
151	IC3	4-Pin Phototransistor Optocoupler	TLP293	nSOIC-4	TOSHIBA	TLP293	6	
152	IC4	4-Pin Phototransistor Optocoupler	TLP293	nSOIC-4	TOSHIBA	TLP293	6	
153	J1	Mini USB 2.0 Type B Through-Hole Vertical	WR-COM 651005136421	mini USB B THT V	WE	651005136421	3	
154	J3	SMT Holder for 6.8mm Cat-Matte Tin Plated P/N 3098	3098	KEYSTONE_3098	Keystone	3098	5	
155	L1	LAN Transformer	WE-LAN 7490100111A	WE WE-LAN 7490100111A	WE	7490100111A	3	
156	L2	LAN Transformer	WE-LAN 7490100111A	WE WE-LAN 7490100111A	WE	7490100111A	3	
157	L3	SMD EMI Suppression Ferrite Bead, 0805	600 @ 100MHz	0805	WE	7427920415	4	
158	L4	WE-MAPI SMT Power Inductor, 4020	15u	4020	WE	74438356150	4	
159	L5	SMD Power Inductor, 1050	33u	1050	WE	7447714330	4	
160	L6	SMD Inductor, WE-LQ, 1812	6u8	1812	WE	744045006	4	
161	L7	SMD EMI Suppression Ferrite Bead, 0603	470 @ 100MHz	0603	WE	742792645	5	
162	L8	SMD EMI Suppression Ferrite Bead, 0603	470 @ 100MHz	0603	WE	742792645	8	
163	L9	WE-MI SMT Multilayer Inductor	0.47uH	0805	WE	74479032	8	
164	L10	WE-MI SMT Multilayer Inductor	0.47uH	0805	WE	74479032	8	
165	L11	SMD EMI Suppression Ferrite Bead, 0603	120 @ 100MHz	0603	WE	742792625	9	
166	L12	SMD Common Mode Line Filter, 1206	90 @ 100 MHz	1206	WE	744232090	9	
167	L13	SMD EMI Suppression Ferrite Bead, 0603	120 @ 100MHz	0603	WE	742792625	9	
168	L14	WE-MAPI SMT Power Inductor, 1008 (2510) 10u, 0.6A, 843mOhm	10u, 0.6A	1008	WE	74438323100	10	
169	L15	SMD EMI Suppression Ferrite Bead, 0805	600 @ 100MHz	0805	WE	742792040	10	
170	L16	SMD EMI Suppression Ferrite Bead, 0805	600 @ 100MHz	0805	WE	742792040	10	
171	Q1	NP/NPN resistor-equipped transistors, R1=4k7 R2=47k	PUMH13	SOT363	NXP	PUMH13	6	
172	QR1	PNP/PNP resistor-equipped transistors, R1=4k7 R2=47k	PUMB13	SOT363	NXP	PUMB13	13	
173	QR2	PNP/PNP resistor-equipped transistors, R1=4k7 R2=47k	PUMB13	SOT363	NXP	PUMB13	13	
174	R1	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	7	
175	R2	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	7	
176	R3	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	7	
177	R4	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	7	
178	R5	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	7	
179	R6	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	75R	0603	ROHM	MCR03ERTF75R0	3	
180	R7	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	75R	0603	ROHM	MCR03ERTF75R0	3	
181	R8	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	75R	0603	ROHM	MCR03ERTF75R0	3	
182	R9	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	75R	0603	ROHM	MCR03ERTF75R0	3	
183	R10	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	91k	0402	ROHM	MCR01MRTJ913	4	
184	R11	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	47k	0402	ROHM	MCR01MRTJ473	4	
185	R12	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	33k	0402	ROHM	MCR01MRTJ333	4	
186	R13	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	13k	0402	ROHM	MCR01MRTJ133	4	
187	R14	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
188	R15	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
189	R16	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
190	R17	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
191	R18	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100R	0402	ROHM	MCR01MRTJ101	5	
192	R19	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
193	R20	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
194	R21	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
195	R22	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
196	R23	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
197	R24	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
198	R25	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
199	R26	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
200	R27	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	5	
201	R28	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
202	R29	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
203	R30	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
204	R31	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
205	R32	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
206	R33	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	8	
207	R34	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	8	
208	R35	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	8	
209	R36	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	1k8	0603	ROHM	MCR03ERTJ182	8	
210	R37	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	12	
211	R38	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	0R82	0603	VISHAY	RCWE0603R820FKEA	8	
212	R39	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	0R82	0603	VISHAY	RCWE0603R820FKEA	8	
213	R40	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	47k	0402	ROHM	MCR01MRTJ473	6	
214	R41	Compact Thick Film Chip Resistors, RC1206, ±5%, 1/4W	4k7	1206	ROHM	MCR18ERTJ472	6	
215	R42	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	47k	0402	ROHM	MCR01MRTJ473	6	
216	R43	Compact Thick Film Chip Resistors, RC1206, ±5%, 1/4W	4k7	1206	ROHM	MCR18ERTJ472	6	
217	R44	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	6	
218	R45	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	1k8	0603	ROHM	MCR03ERTJ182	6	
219	R46	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	6	
220	R47	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	1k8	0603	ROHM	MCR03ERTJ182	6	
221	R53	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	1k00	0402	ROHM	MCR01MRTF1001	5	
222	R56	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	9	
223	R57	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	9	
224	R58	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	9	
225	R59	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	9	
226	R61	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	120R	0402	ROHM	MCR01MRTJ121	13	
227	R62	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	2k0	0402	ROHM	MCR01MRTJ202	13	1
228	R63	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	270R	0402	ROHM	MCR01MRTJ271	13	
229	R64	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	270R	0402	ROHM	MCR01MRTJ271	13	
230	R65	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	220R	0603	ROHM	MCR03ERTJ221	13	
231	R66	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	120R	0603	ROHM	MCR03ERTJ121	13	
232	R67	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	120R	0402	ROHM	MCR01MRTJ121	13	
233	R68	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	2k0	0402	ROHM	MCR01MRTJ202	13	1
234	R69	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	270R	0402	ROHM	MCR01MRTJ271	13	
235	R70	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	270R	0402	ROHM	MCR01MRTJ271	13	
236	R71	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	120R	0603	ROHM	MCR03ERTJ121	13	
237	R72	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	2k0	0603	ROHM	MCR03ERTJ202	13	
238	R73	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	120R	0603	ROHM	MCR03ERTJ121	13	
239	R74	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	2k0	0603	ROHM	MCR03ERTJ202	13	
240	R76	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	10	
241	R77	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	1k0	0402	ROHM	MCR01MRTJ102	11	
242	R78	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
243	R79	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
244	R80	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
245	R81	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	

#	Designator	Description	Value	PCB Footprint	Manufacturer	Part Number	SheetN umber	Notes
246	R82	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	11	
247	R83	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	1k0	0402	ROHM	MCR01MRTJ102	11	
248	R84	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	300R	0402	ROHM	MCR01MRTJ301	11	
249	R85	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	300R	0402	ROHM	MCR01MRTJ301	11	
250	R86	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
251	R87	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
252	R88	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	11	
253	R89	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	0R0	0402	ROHM	MCR01MRTJ000	11	
254	R90	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100R	0402	ROHM	MCR01MRTJ101	11	
255	R91	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
256	R92	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
257	R93	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
258	R94	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
259	R95	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	6k49	0402	ROHM	MCR01MRTF6491	12	
260	R96	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	12	
261	R97	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	12	
262	R98	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	1k0	0603	ROHM	MCR03ERTJ102	3	
263	R99	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
264	R100	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
265	R101	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	8	
266	R102	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	8	
267	R103	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
268	R104	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
269	R105	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
270	R106	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
271	R107	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
272	R108	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	11	
273	R200	Compact Thick Film Chip Resistors, RC0603, ±1%, 1/10W	1M00	0603	ROHM	MCR03ERTF1004	3	
274	R201	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	5	
275	U1	64Mbit (4Mx16bit) SDRAM 166MHz 6ns typ, 54pin TFBGA	AS4C4M16SA-6BIN	TFBGA-54	ALLIANCE	AS4C4M16SA-6BIN	7	
276	U2	64k I2C Serial EEPROM	24AA64-I/OT	SOT23-5	MICROCHIP	24AA64-I/OT	7	
277	U3	32-Mbit, 2.7V Minimum SPI Serial Flash Memory with Dual/Quad I/O Support	AT25SF321B-SSHB-x	nSOIC-8	DIALOG	AT25SF321B-SSHB-x	7	
278	U4	128Mbit, 2.3V Minimum SPI Serial Flash 166MHz - Multi IO SPI, QPI DTR wSOIC-8	IS25LP128F-JBLE	wSOIC-8	ISSI	IS25LP128F-JBLE	7	
279	U5	Low Voltage 1A Voltage Regulator (LDO Regulator) 6.5Vin	RP132K331F-TR	DFN-1820-6	NISSHINBO	RP132K331F-TR	4	
280	U6	Mag3C Power Module, 5V Input Voltage / 1W / 1.5kV Functional Isolated Unregulated 5V Output	1779205111	11.60x6.00	WE	1779205111	4	
281	U7	Arm Cortex-M0+ 32-bit MCU, 512KB Flash, 144KB RAM, 6x USART, timers, ADC, comm. I/Fs, 2.0-3.6 V	STM32G0B0RE	LQFP64	ST	STM32G0B0RE	5	
282	U8	±0.25°C Typical Accuracy Digital Temperature Sensor	MCP9804	MSOP-8	MICROCHIP	MCP9804#-E/MS	8	
283	U9	VFQFPN32 NFC reader 2.6 to 5.5 V	ST25R3916B	VFQFPN32	ST	ST25R3916B	8	
284	U11	Low Capacitance TVS Diode Array	SR05	SOT143	SEMTECH	SR05.TCT	9	
285	U13	netX90 (2270.000R3) multiprotocol network controller, SoC with 2xCortex-M4 (COM+APP) processors, low power consumption and security with Industrial ETH, Fieldbus and IIO/T standards	netX90_2270	LFBGA144	Hilscher	netX90_2270	11	
286	VR1	LMR14020-Q1 SIMPLE SWITCHER® 40 V, 2 A Step-Down Converter with 40 µA IQ	LMR14020SQDPRRQ1	WSON(10)	TI	LMR14020SQDPRRQ1	4	
287	VR2	500 mA Peak Output LDO Regulator	MIC5219-5.0YMT	TDFN-6	MICROCHIP	MIC5219-5.0YMT	4	
288	W200	Solder Jumper, 2	Solder Jumper 2				3	
289	Y1	SMD Low profile Crystal, ABS05 Series, 32.768KHz, 9pF	32.768kHz	OSC 1.6x1.0	ABRACON	ABS05-32.768KHz-9-T	5	
290	Y2	Ceramic SMD Crystal 48MHz	48MHz	OSC 3.2x2.5	TXC	7M-48.000MEEQ-T	5	
291	Y3	SMD Quartz Crystal - JXS22-WA, 27.12MHz ±10ppm Cristalli 10pF 4-SMD, senza piombo	27.12MHz	OSC 2.5x2.0	JAUCH	Q 27.120-JXS22-10-10-10-FU-WA-LF	8	
292	Y5	SMD XTAL 2.0x1.6mm 25.0MHz +/-10ppm Initial tolerance	25MHz	OSC 2.0x1.6	MURATA	XRCGB25M000F1SBBR0	11	
Notes: 1 Change against V2: R62, R68: 4700hm > 2kOhm (ST50/1 red led luminosity tuning)								