

Component List

05B24

Version: [01] - Sample Production
Revision: 0
Date: 26/09/2024



Description: Versione produzione

#	Designator	Description	Value	PCB Footprint	Manufacturer	Part Number	SheetN umber	Notes
1	C1	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
2	C2	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
3	C3	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
4	C4	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
5	C5	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
6	C6	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	4	
7	C7	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
8	C8	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
9	C9	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	6	
10	C10	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	6	
11	C11	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	22u	0805	MURATA	GRM21BR61E22ME44#	7	
12	C12	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, 10%, X5R, 25V	22u	0805	MURATA	GRM21BR61E22ME44#	7	
13	C13	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
14	C14	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
15	C15	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
16	C16	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	7	
17	C17	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	47p	0603	MURATA	GRM1885C1H470FA01#	7	
18	C18	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, ±10%, X7R, 10V	470n	0402	MURATA	GRM155R71A47KE01#	7	
19	C19	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	??p	0603	MURATA	GRM1885C1H####FA01#	7	
20	C20	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, ±10%, X7R, 10V	470n	0402	MURATA	GRM155R71A47KE01#	7	
21	C21	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	100p	0603	KEMET	CBR06C101F5GAC	7	
22	C22	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	47p	0603	MURATA	GRM1885C1H470FA01#	7	
23	C23	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	68p	0603	MURATA	GCM1555C1H68FA16D	7	
24	C24	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 5%, COG, 50V	1n0	0402	MURATA	GRM1555C1H102JA01#	7	
25	C25	Surface Mount Multilayer Ceramic Chip Capacitors (SMD MLCCs), 0603, 1%, COG, 50V	100p	0603	KEMET	CBR06C101F5GAC	7	
26	C26	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	47p	0603	MURATA	GRM1885C1H470FA01#	7	
27	C27	Chip Multilayer Ceramic Capacitors for Automotive, 0603, 1%, COG, 50V	68p	0603	MURATA	GCM1555C1H68FA16D	7	
28	C28	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	68p	0402	MURATA	GCM1555C1H68FA16#	7	
29	C29	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	56p	0402	MURATA	GCM1555C1H56FA16#	7	
30	C30	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	68p	0402	MURATA	GCM1555C1H68FA16#	7	
31	C31	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	56p	0402	MURATA	GCM1555C1H56FA16#	7	
32	C32	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	??p	0603	MURATA	GRM1885C1H####FA01#	7	
33	C33	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 5%, COG, 50V	1n0	0402	MURATA	GRM1555C1H102JA01#	7	
34	C34	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 1%, COG, 50V	47p	0603	MURATA	GRM1885C1H470FA01#	7	
35	C35	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	7	
36	C36	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	7	
37	C37	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	7	
38	C38	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 5%, COG, 50V	12p	0402	MURATA	GCM1555C1H120JA16#	4	
39	C39	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
40	C40	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	4	
41	C41	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X7R, 100V	100n	0603	MURATA	GRM188R72A104KA35#	9	
42	C42	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	4	
43	C43	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
44	C44	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
45	C45	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0803	SAMSUNG	CL10A226M07JZNC	9	
46	C46	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226M07JZNC	9	
47	C47	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 50V	4u7	1206	MURATA	GRM31CR71H475KA12#	9	
48	C48	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 10%, X7R, 50V	4u7	1206	MURATA	GRM31CR71H475KA12#	9	
49	C49	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 10%, X7R, 50V	100n	0402	MURATA	GCM155R71H104KE02#	9	
50	C50	Chip Multilayer Ceramic Capacitors for Automotive, 0805, 10%, X7R, 250V	10n	0805	TDK	CGA4J3X7R2E103K125AA	9	
51	C51	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
52	C52	Chip Multilayer Ceramic Capacitors for Automotive, 1206, 10%, X7S, 100V	2u2	1206	MURATA	GCM31CC72A225KE02L	9	
53	C53	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	9	
54	C54	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
55	C55	Chip Multilayer Ceramic Capacitors for Automotive, 0402, 1%, COG, 50V	470p	0402	MURATA	GCM1555C1H471FA16#	9	
56	C56	Chip Multilayer Ceramic Capacitors for General Purpose, 0603, 10%, X5R, 25V	10u	0603	MURATA	GRM188R61E106KA73#	9	
57	C57	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
58	C58	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226M07JZNC	9	
59	C59	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
60	C61	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	9	
61	C62	Chip Multilayer Ceramic Capacitors for General Purpose, 0805, ±20%, X5R, 16V	22u	0603	SAMSUNG	CL10A226M07JZNC	9	
62	C63	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X5R, 25V	1u0	0402	MURATA	GRM155R61E105KA12#	5	
63	C64	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X5R, 25V	1u0	0402	MURATA	GRM155R61E105KA12#	5	
64	C65	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
65	C66	Chip Multilayer Ceramic Capacitors for General Purpose, 0402, 10%, X7R, 50V	100n	0402	MURATA	GRM155R71H104KE14#	5	
66	CON1	Easy-On FFC/FPC Connector, 1.00mm Pitch, Slider Series, Vertical, 5.75mm Height, 6 Circuits, Gold	52610-0672	MOLEX_52610-06xx	MOLEX	52610-0672	10	
67	CON2	Easy-On FFC/FPC Connector, 1.00mm Pitch, Slider Series, Vertical, 5.75mm Height, 8 Circuits, Gold	52610-0872	MOLEX 526100871	MOLEX	52610-0872	10	

#	Designator	Description	Value	PCB Footprint	Manufacturer	Part Number	SheetN umber	Notes
68	CON3	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	4	
69	CON4	WR-PHD THT Straight Single Pin Header, 2mm, 3pin	62000311121	WE_WR-PHD_62000311121	WE	62000311121	4	
70	D1	High Voltage Surface-Mount Schottky Barrier Rectifier	SS2PH10-M3/84A	DO-220AA	VISHAY	SS2PH10-M3/84A	9	
71	IC1	Low-Power, Ultra-Small, Dual Driver, IO-Link Device Transceiver	MAX14827AATG+	QFN-24	MAXIM	MAX1427A	5	
72	L1	SMD EMI Suppression Ferrite Bead, 0603	470 @ 100MHz	0603	WE	742792645	4	
73	L2	SMD EMI Suppression Ferrite Bead, 0603	470 @ 100MHz	0603	WE	742792645	7	
74	L3	WE-MI SMT Multilayer Inductor	0.47uH	0805	WE	74479032	7	
75	L4	WE-MI SMT Multilayer Inductor	0.47uH	0805	WE	74479032	7	
76	L5	SMD Power Inductor, 1050	33u	1050	WE	7447714330	9	
77	L6	WE-MPSB EMI Multilayer Power Suppression Bead	8 @ 100 MHz	0603	WE	7427922808	9	
78	L7	WE-MAPI SMT Power Inductor, 4020	15u	4020	WE	74438356150	9	
79	QR1	PNP/PNP resistor-equipped transistors, R1=4k7 R2=47k	PUMB13	SOT363	NXP	PUMB13	8	
80	R1	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	10k	0402	ROHM	MCR01MRTJ103	4	
81	R2	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100R	0402	ROHM	MCR01MRTJ101	4	
82	R3	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	1k0	0402	ROHM	MCR01MRTJ102	4	
83	R4	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	6	
84	R5	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	6	
85	R6	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	4k7	0402	ROHM	MCR01MRTJ472	6	
86	R7	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	7	
87	R8	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	7	
88	R9	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	7	
89	R10	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	1R8	0603	ROHM	MCR03ERTJ1R8	7	
90	R11	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	22k0	0402	ROHM	MCR01MRTF2202	7	
91	R12	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	1R8	0603	ROHM	MCR03ERTJ1R8	7	
92	R13	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	22k0	0402	ROHM	MCR01MRTF2202	7	
93	R14	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	1k00	0402	ROHM	MCR01MRTF1001	7	
94	R15	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	1k00	0402	ROHM	MCR01MRTF1001	7	
95	R16	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	120R	0603	ROHM	MCR03ERTJ121	8	
96	R17	Compact Thick Film Chip Resistors, RC0603, ±5%, 1/10W	120R	0603	ROHM	MCR03ERTJ121	8	
97	R18	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	137k	0402	ROHM	MCR01MRTF1373	9	
98	R19	Compact Thick Film Chip Resistors, RC0402, ±5%, 1/16W	100k	0402	ROHM	MCR01MRTJ104	9	
99	R21	Compact Thick Film Chip Resistors, RC0402, ±1%, 1/16W	20k0	0402	ROHM	MCR01MRTF2002	9	
100	U1	32-bit Arm Cortex-M0+ , USB, and Advanced Analog	ATSAMD21G18A-Ax	TQFP48	MICROCHIP	ATSAMD21G18A-A	4	
101	U2	4-Mbit, 2.7V Minimum SPI Serial Flash Memory	AT25SF041B-SSHx-x	nSOIC-8	DIALOG	AT25SF041B-SSHx-x	6	
102	U3	64k I2C Serial EEPROM	24AA64T-IOT	SOT23-5	MICROCHIP	24AA64-IOT	6	
103	U4	Multiprotocol NFC Frontend versione Plus	CLRC66303HN	HVQFN32	NXP	CLRC66303HN	7	
104	VR1	Step-Down Converter With High Efficiency Eco-mode	LMR14010ADDCx	SOT23-6	TI	LMR14010ADDC	9	
105	VR2	500 mA Peak Output LDO Regulator	MIC5219-5.0YMT	TDFN-6	MICROCHIP	MIC5219-5.0YMT	9	
106	VR3	Low Voltage 1A Voltage Regulator (LDO Regulator) 6.5Vin	RP132K331F-TR	DFN-1820-6	NISSHINBO	RP132K331F-TR	9	
107	Y1	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-FU-WA-LF	7	
108	Y2	Ultra Miniature Ceramic Glass Sealed SMD Crystal, ABM8G Series, 12MHz, 18pF	12MHz	OSC 3.2x2.5	ABRACON	ABM8G-12.000MHz-18-D4Y	4	
Notes:								