

ID	Name	Designator	Footprint	Quantity	Manufacturer Part
1	KBP310	BR1,BR2	BRIDGE	2	LB105
2	100p	C1,C2	WIMA MKP X2 15MM	2	WIMA MKP X2 15mm
3	220p	C3	WIMA MKP X2 15MM	1	WIMA MKP X2 15mm
4	330p	C4	WIMA MKP X2 15MM	1	WIMA MKP X2 15mm
5	4700p	C5	WIMA MKP X2 15MM	1	WIMA MKP X2 15mm
6	0.01u	C6	WIMA MKP X2 15MM	1	WIMA MKP X2 15mm
7	680p	C7,C8	WIMA MKP X2 15MM	2	WIMA MKP X2 15mm
8	1.5n	C9,C10	WIMA MKP X2 15MM	2	WIMA MKP X2 15mm
9	1000p	C11,C12	WIMA MKP X2 15MM	2	WIMA MKP X2 15mm
10	10uF	C13,C14,C15	CAP-SMD_BD4.0-L4.3-W4.3-FD	3	VD1E100MB054000CE0
11	22uF	C16,C17,C18,C19,C20,C21,C22	CAP-SMD_BD4.0-L4.3-W4.3-FD	7	VD1E100MB054000CE0
12	100uF	C23,C24,C25,C26,C27,C28	CAP-SMD_BD4.0-L4.3-W4.3-FD	6	VD1E100MB054000CE0
13	470uF	C29,C30,C31,C32,C33	CAP-SMD_BD4.0-L4.3-W4.3-FD	5	VD1E100MB054000CE0
14	100pF	C34	CAP-TH_L6.5-W4.0-P5.00-D1.0	1	CCB Capacitor 100PF100v
15	220uF	C38,C39,C40,C41,C47	CAP-TH_BD10.0-P5.00-D1.0-FD	5	EKMG630ETD221MJ16S
16	1000uF	C42,C43,C44,C45	CAP-TH_BD12.5-P5.00-D1.2-FD	4	1000uF 35V 13*20Purple high frequency
17	2.2uF	C46	CAP-TH_BD4.0-P1.50-D0.8-FD	1	2.2uf/50V
18	1N4001	D1,D2,D3	DO-41	3	
19	1N4003	D4	DO-41_BD2.4-L4.7-P8.70-D0.9-RD	1	1N4003G-T
20	.	H1	HDR-TH_2P-P2.54-V	1	210-91-02GB01
21	P2	IN,OUT	HDR-TH_3P-P2.54-V_A2541HWV-3f	2	210-91-03GB01
22	48v	LED1	LED-TH_BD3.9-P2.54-FD	1	TJ-L3FYTGHRMBCLFLC4R-A5
23	LED	LED7	LED0603_RED	1	19-217/R6C-AL1M2VY/3T
24	2N3055	Q1	TO-3_L39.4-W26.7-P10.92-BL-CW	1	2N3055T3BL
25	BC184C	Q2,Q3,Q4,Q5,Q6,Q7,Q8,Q9	TO92	8	
26	BC550	Q11	TO-92-3_L4.8-W3.7-P2.54-L	1	BC550-B
27	6.8K	R1,R2	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	MFROW4F6801A50
28	47	R3	RES-TH_BD2.3-L6.5-P10.50-D0.5	1	-
29	56K	R4	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MF1/4W-56KΩ±1%
30	18K	R5	RES-TH_BD2.3-L6.5-P10.50-D0.5	1	-
31	18K	R6,R7	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	MFROW4F1802A50
32	33K	R8	RES-TH_BD2.3-L6.5-P10.50-D0.5	1	-
33	68K	R9	RES-TH_BD2.3-L6.5-P10.50-D0.5	1	RNS14F6802A520NH
34	68K	R10,R11	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	-
35	3.3K	R12,R13	RES-TH_BD2.3-L6.5-P10.50-D0.5	2	-
36	3.3K	R14	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F1802A50
37	3.3K	R15	RES-TH_BD1.9-L3.3-P7.30-D0.5	1	RN16T24301F
38	2.2K	R17,R18	RES-TH_BD2.3-L6.5-P10.50-D0.5	2	-
39	2.2K	R16,R19	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	MF1/4CCT52A2201F
40	1.2K	R20	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F1201A50
41	12	R21	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	-
42	1.5K	R22,R23,R24	RES-TH_BD2.3-L6.5-P10.50-D0.5	3	-
43	560	R25	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F5600A50
44	33K	R26,R27	RES-TH_BD2.3-L6.5-P10.50-D0.5	2	-
45	5.1K	R28,R29	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	MFROW4F5101A50
46	5.1K	R30	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MF1/4W-56KΩ±1%
47	51K	R31,R32	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	MFROW4F5102A50
48	47K	R33,R34	RES-TH_BD2.5-L6.5-P10.50-D0.6	2	MFROW4F4702A50
49	120K	R35,R36	RES-TH_BD2.5-L6.5-P10.50-D0.6	2	MFROW4F1203A50
50	15K	R37	RES-TH_BD2.3-L6.5-P10.50-D0.5	1	-
51	10K	R38,R39	RES-TH_BD2.3-L6.5-P10.50-D0.5	2	-
52	470	R40,R41	RES-TH_BD2.3-L6.5-P10.50-D0.5	2	-
53	390	R42,R43	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	-
54	82	R44	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	-
55	1.8K	R45,R46,R47	RES-TH_BD2.2-L6.5-P10.50-D0.6	3	-
56	270	R48	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MF1/4W-220Ω±1%
57	12K	R49	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F3301A50
58	3.9K	R50	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F1802A50
59	3.9K	R51,R52	RES-TH_BD2.4-L6.3-P10.30-D0.6	2	RNS14F3901A520NH
60	2.7K	R53,R54	RES-TH_BD2.2-L6.5-P10.50-D0.6	2	MFROW4F1802A50
61	2.7K	R55	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MF1/4W-56KΩ±1%
62	360	R56	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F1802A50
63	130	R57	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F1802A50
64	1K	R58	RES-TH_BD2.3-L6.5-P10.50-D0.5	1	-
65	510	R59	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MF1/4CCT52A5100F
66	4.3K	R60	RES-TH_BD1.9-L3.3-P7.30-D0.5	1	RN16T24301F
67	7.5K	R61	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MF1/4W-56KΩ±1%
68	39K	R62	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F5102A50
69	Bias 4.7k	R63	POTENTIOMETER	1	Potentiometer
70	Out 10k Lin	R64	POTENTIOMETER	1	Potentiometer
71	47k	R65	RO201	1	
72	22K	R69	RES-TH_BD2.2-L6.5-P10.50-D0.6	1	MFROW4F6801A50
73	240R	R70	RO201	1	
74	10k	R71	RO201	1	
75	5R6	R72	RO201	1	
76	1R	R73,R74,R75	RO201	3	
77	50K	RP1	RES-ADJ-TH_3386P	1	
78	71-12SP-3D	SW1	71-12-3D-3C	1	
79	48v	SW2	SW-TH_T101SHCQE	1	T101SHCQE
80	Hi / Lo	SW3	SW-TH_7201SDZQI	1	7201SDZQI
81	Phase	SW4	SW-TH_7201SDZQI	1	7201SDZQI
82	CARNHILL VTB9045	U1	VTB9045M	1	
83	CARNHILL VTB1148	U2	CARNHILL VTB1847	1	
84	330nF	U4,U6	CAP-TH_L10.5-W5.0-P7.50-D1.2	2	-
85	TL783	U5	NONE	1	TL783CKCSE3
86	100nF	U3,U7,U9,U11	CAP-TH_L10.5-W5.0-P7.50-D1.2	4	-
87	IC 7824	U8		1	7824