

Bill of materials

Table 1. AEK-POW-SPSB081 bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C1	4.7nF 0603C 50V ±10%	0603 - 50V - X7R Class II	WE	885012206087
2	2	C2, C3	47pF 0603C 50V ±5%	0603 - 50V - NP0 Class I	WE	885012006055
3	1	C4	1nF 0603C 50V ±10%	0603 - 50V - X7R Class II	WE	885012206083
4	2	C5, C6	10uF 1210C 50V ±10%	1210 - 50V - X7R Class II	WE	885012209073
5	1	C7	220nF 0603C 50V ±5%	0603 - 50V - X7R Class II	WE	885012206125
6	2	C8, C13	2.2uF 0805C 25V ±10%	0805 - 25V - X7R Class II	WE	885012207079
7	4	C9, C10, C11, C12	47nF 0603C 50V ±10%	0603 - 50V - X7R Class II	WE	885012206093
8	1	C15	1uF 0805C 50V ±10%	0805 - 50V - X7R Class II	WE	885012207103
9	1	C16	100nF 0805C 100V ±10%	0805 - 100V - X7R Class II	WE	885012207128
10	2	CN1, CN2	KK254_2p 250VAC 3A	2.54mm - 1 row - KK254 - Male	WE	61900211121
11	1	CN3	KK254_3p 250VAC 3A	2.54mm - 1 row - KK254 - Male	WE	61900311121
12	2	CN4, CN5	KK254_4p 250VAC 3A	2.54mm - 1 row - KK254 - Male	WE	61900411121
13	1	CN6	KK254_7P 250VAC 3A	2.54mm - 1 row - KK254 - Male	WE	61900711121
14	2	D1, D2	STTH102AY SMA 200V 1A	Automotive high efficiency ultrafast diode.	ST	STTH102AY
15	1	D3	SMAJ40CA-TR SMA 40V 400W	Automotive 600 W, 30.8 V TVS in SMB	ST	SMAJ40CA-TR
16	1	D4	ESDLIN1524BJ SOD-323	Automotive Transil™, transient voltage suppressor (TVS) for LIN bus	ST	ESDLIN1524BJ
17	1	D5	SZMM3Z4V7T1G SOD-323 4.7V 300mW	4.7V Zener Voltage Regulators, 300mW	Onsemi	SZMM3Z4V7T1G
18	4	D6, D7, D8, D9	Green LED_0805 3.2V	0805 - Led Green - 3.2V	WE	150080GS75000
19	2	D10, D11	Blue LED_0805 3.2V	0805 - Led Blue - 3.2V	WE	150080BS75000

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
20	1	D12	Red LED_0805 2V	0805 - Led Red - 2V	WE	150080RS75000
21	1	D13	Amber LED_0805 2V	0805 - Led Amber - 2V	WE	150080AS75000
22	1	JP1	SIL_2x1 250VAC 3A	2.54mm - 1 row	WE	61300211121
23	1	P1	Con_2P_2.54 150V (AC); 450 V (AC) 6A	2.54mm - WR- TBL Series 2109 - Horizontal Entry Modular	WE	691210910002
24	1	P2	Con_5P_2.54 150V (AC); 450 V (AC) 6A	2.54mm - WR- TBL Series 2109 - Horizontal Entry Modular	WE	691210910005
25	4	Q1, Q2, Q3, Q4	BSS138Q SOT-23 50 0.2A 0.3W	N-Channel Enhancement Mosfet	NEXPERIA	BSS138Q-7-F
26	4	R1, R2, R16, R17	62 0603R 0.1W ±0.1%	0603 - ±0.1% - 0.1W	Panasonic	ERA3AEB620V
27	1	R3	0 0603R 0.1W ±1%	0603 - ±1% - 0.1W	Panasonic	ERJ3GEY0R00V
28	1	R4	N.M. 0603R	0603	N.A.	N.A.
29	9	R5, R6, R7, R8, R18, R20, R26, R27, R28	100 0603R 0.25W ±1%	0603 - ±1% - 0.25W	Panasonic	ERJPA3F1000V
30	1	R9	220 0603R 0.25W ±1%	0603 - ±1% - 0.25W	Panasonic	ERJPA3F2200V
31	3	R10, R11, R19	1K 0603R 0.25W ±1%	0603 - ±1% - 0.25W	Panasonic	ERJPA3F1001V
32	7	R12, R13, R14, R15, R21, R22, R23	2.7k 0603R 0.125W ±1%	0603 - ±1% - 0.125W	Vishay	MCT06030C2701FP500
33	1	R24	2K 0603R 0.2W ±1%	0603 - ±1% - 0.2W	Panasonic	ERJP03F2001V
34	5	R25, R29, R30, R31, R32	10K 0603R 0.2W ±1%	0603 - ±1% - 0.2W	Panasonic	ERJP03F1002V
35	1	R33	27K 0805R 0.125W	0805 - ±1% - 0.125W	Panasonic	ERJ6ENF2702V
36	1	S1	430152043826 430152043826	Switch	WE	430152043826
37	1	U1	SPSB0815-TR QFN32L	Automotive Power management IC with LIN and CAN- FD	ST	SPSB0815-TR
38	4	for blister	97790403111 Screw	WA-SCRW Pan Head Screw w. cross slot M3	WE	97790403111
39	1	for blister	60900213421 Jumper	WR-PHD 2.54 mm Multi-Jumper Jumper with Test Point	WE	60900213421

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
40	2	for blister	61900411621 Terminal Housing	WR-WTB 2.54 mm Female Terminal Housing	WE	61900411621
41	2	for blister	61900211621 Terminal Housing	WR-WTB 2.54 mm Female Terminal Housing	WE	61900211621
42	1	for blister	61900311621 Terminal Housing	WR-WTB 2.54 mm Female Terminal Housing	WE	61900311621
43	1	for blister	61900711621 Terminal Housing	WR-WTB 2.54 mm Female Terminal Housing	WE	61900711621
44	22	for blister	61910113722 Crimp Contact	WR-WTB 2.54 mm Female Crimp Contact	WE	61910113722
45	4	for blister	970080365 Spacer M3x8	WA-SPAI Plastic Spacer Stud, metric, internal/ internal	WE	970080365

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