



Bill of materials

Table 1. AEK-MOT-4DCMH94 bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	4	C1, C2, C3, C4	470uF	Electrolytic Cap - 25V - 10x10.5	WE	865060457009
2	15	C5, C6, C11, C12, C13, C14, C19, C20, C21, C22, C47, C72, C74, C76, C93	N.M.	0603	N.A.	N.A.
3	27	C7, C8, C9, C10, C15, C16, C17, C18, C29, C30, C31, C32, C37, C38, C39, C40, C46, C48, C51, C61, C63, C65, C82, C84, C86, C103, C105	100nF	0603 - 50V - X7R Class II	WE	885012206095
4	2	C45, C50	22uF	1210 - 25V - X7R Class II	WE	885012209074
5	4	C49, C52, C58, C59	220nF	0603 - 50V - X7R Class II	WE	885012206125
6	2	C53, C54	470nF	0805 - 50V - X7R Class II	WE	885012207102
7	2	C55, C56	10nF	0603 - 50V - X7R Class II	WE	885012206089
8	1	C57	1nF	0603 - 50V - X7R Class II	WE	885012206083
9	4	C73, C75, C77, C94	100pF	0603 - 100V - X7R Class II	WE	885012206102
10	1	CN1	103-40064TH	DIN 41612 Male 90°, type C, Part No. 103-40064TH	EPT	103-40064TH
11	8	D1, D2, D3, D4, D5, D6, D7, D8	1N4148W	Silicon epitaxial planar diode	Vishay	1N4148W-HE3_A-08
12	1	D9	SM15T27CAY, SMC - NP	SMC TVS - 27VDC - Bidirectional - 1500W	ST	SM15T27CAY
13	1	D10	STPS2H100ZFY, SOD123 FLAT	Automotive 100V, 2A Power Schottky Rectifier	ST	STPS2H100ZFY
14	1	D11	SZMM3Z4V7T1G	4.7V Zener Voltage Regulators, 300mW	Onsemi	SZMM3Z4V7T1G
15	13	D12, D13, D15, D16, D18, D19, D20, D21, D22, D23, D24, D25, D28	ESDLIN1524BJ, SOD 323	Automotive Transil™, transient voltage suppressor (TVS) for LIN bus	ST	ESDLIN1524BJ
16	1	D14	Red	0805 - Led Red - 2V	WE	150080RS75000
17	2	D17, D26	Green	0805 - Led Green - 3.2V	WE	150080GS75000
18	1	D27	Blue	0805 - Led Blue - 3.2V	WE	150080BS75000
19	4	J1, J2, J5a, J5b	Con 2p 7.62_green	7.62mm - WR-TBL Series 2184 Horizontal Entry Modular w. Rising Cage Clamp	WE	691218410002
20	1	JP1	Jumper 2p Closed	2.54mm - Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2p, Closed	WE	61300211121
21	8	JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9	0	0805_Jumper 3p Closed SMD	Vishay	RCC06030000Z0EA

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
22	1	P1		WP-PLUG REDCUBE Direct Plug Terminal, 14.8x14.8x18.1mm, Red, 120A	WE	7464000
23	1	P2		WP-PLUG REDCUBE Direct Plug Terminal, 14.8x14.8x18.1mm, Black, 120A	WE	7464100
24	8	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	STL130N8F7, 'PowerFLAT 5x6_WF type C	Automotive-grade N-channel 80 V, 3.6 mΩ typ., 120 A STripFET F7 Power MOSFET in a PowerFLAT 5x6 package	ST	STL130N8F7
25	3	Q17, Q18, Q19	STH315N10F7-6, H2PAK-6	MOSFET LGS LV MOSFET	ST	STH315N10F7-6
26	1	Q20	2STR1160, SOT-23	NPN Bipolar Transistor 60V, 1A	ST	2STR1160
27	16	R1, R2, R3, R4, R25, R26, R27, R28, R37, R38, R39, R40, R61, R62, R63, R64	100	0603 - ±1% - 0.125W	Panasonic	ERJH3EF1000V
28	25	R5, R6, R7, R8, R17, R18, R19, R20, R29, R30, R31, R32, R41, R42, R43, R44, R53, R54, R55, R56, R65, R66, R67, R68, R90	0	0603 - ±1% - 0.1W	Panasonic	ERJ3GEY0R00V
29	17	R9, R10, R11, R12, R33, R34, R35, R36, R45, R46, R47, R48, R69, R70, R71, R72, R89	100K	0603 - ±1% - 0.2W	Panasonic	ERJP03F1003V
30	8	R13, R14, R15, R16, R21, R22, R23, R24	10m	2512 - ±1% - 5W	SEI Stackpole	CSSU2512FT10L0
31	7	R73, R74, R75, R111, R112, R113, R132	10	0603 - ±1% - 0.25W	Panasonic	ERJPA3F10R0V
32	1	R76	6.8K	0603 - ±1% - 0.25W	Panasonic	ERJH3EF6801V
33	11	R77, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88	1K	0603 - ±1% - 0.25W	Panasonic	ERJPA3F1001V
34	1	R78	56K	0603 - ±1% - 0.25W	Panasonic	ERJPA3F5602V
35	1	R91	41.2K	0805 - ±0.1% - 0.1W	Panasonic	ERA3ARB4122V
36	3	R92, R93, R95	2.7K	0603 - ±1% - 0.1W	Vishay	MCT06030C2701FP500
37	1	R94	8.2K	0603 - ±1% - 0.1W	Panasonic	ERJ-3EKF8201V
38	8	R108, R109, R110, R114, R115, R116, R129, R135	0	0603 - jumper - 1A	Panasonic	ERJH3G0R00V
39	1	U1	'L99MH94Q7-TR, VFQFN48L	The L99MH94 integrate respectively a quad half-bridge pre-driver dedicated to control up to eight N-channel MOSFETs.	ST	L99MH94Q7-TR
40	4	U2, U3, U4, U5	TSC240A1IYPT, TSSOP8	High-side and low-side bidirectional zero-drift current sense amplifier with enhanced PWM rejection, G=20	ST	TSC240A1IYPT
41	1	for blister	60900213421	WR-PHD 2.54 mm Multi-Jumper Jumper with Test Point	WE	60900213421

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42	4	for blister	97790603211	WA-SCRW Pan Head Screw w. cross slot M3	WE	97790603211
43	4	for blister	970150365	WA-SPAll Plastic Spacer Stud, metric, internal/ internal	WE	970150365
44	2	for blister	74640016	WP-PLUG REDCUBE Cable Connector for Direct PLUG Terminal	WE	74640016

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