



Bill of materials

Table 1. AEK-POW-LDOV02X bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
4		C1, C4, C8, C11	4.7uF	0805 - 25V - X5R Class II	WE	885012107018
4		C2, C9, C15, C18	100nF	0603 - 50V - X7R Class II	WE	885012206095
4		C3, C5, C10, C12	10nF	0603 - 50V - X7R Class II	WE	885012206089
2		C6, C13	2.2nF	0603 - 50V - X7R Class II	WE	885012206085
2		C7, C14	47nF	0603 - 50V - X7R Class II	WE	885012206093
4		CN1A, CN1B, CN2A, CN2B	Con 7P	2.54mm - 1 row - KK254 - Male	WE	61900711121
2		D1, D3	STPS140AY	Automotive power Schottky rectifier 40V, 1A Vf=0.5V	STMicroelectronics	STPS140A
2		D2, D4	SMCJ24CA	SMC TVS - 24VDC - Bidirectional	STMicroelectronics	SMCJ24CA-TR
2		D5, D6	Green	0805 - Led Green - 3.2V	WE	150080GS75000
6		JP1, JP2, JP4, JP5, JP6, JP13	Jumper 2p Closed	2mm - WR-PHD 2.00 mm THT Pin Header Single Row, Vertical, 2p, Closed	WE	62000211121
7		JP7, JP8, JP9, JP10, JP11, JP12, JP16	Jumper 3p	THT Vertical 3 pins Header, Pitch 2.mm, Single Row	WE	62000311121
1		JP14		THT Vertical 2 pins Header, Pitch 2.54 mm, Single Row	WE	61300211121
1		JP15	Jumper dual 3p	WR-PHD Pin Header, THT, Vertical, pitch 2mm, 2 Row, 6P	WE	62000621121
4		P1, P2, P3, P4	Con 2p 5.08_green	5.08mm - WR-TBL Series 2135 - Horizontal Entry Modular	WE	691213510002
4		Q1, Q2, Q3, Q4	STR2N2VH5, SOT23	N-channel 20 V, 0.025 Ω typ., 2.3 A STripFET™ H5 Power MOSFET in a SOT-23 package	ST	STR2N2VH5
2		R1, R8	2K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F2001V
2		R5, R12	100K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1003V

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
	6	R14, R15, R16, R17, R18, R19	1K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F1001V
	15	R20, R21, R22, R23, R28, R29, R36, R37, R40, R41, R42, R44, R45, R47, R58	10K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1002V
	4	R38, R39, R43, R46	100	0603 - $\pm 1\%$ - 0.125W	Panasonic	ERJH3EF1000V
	2	TR1, TR2	500K	Trimmer - $\pm 10\%$ - 0.5W	Bourns	3296W-1-504LF
	1	U1	L99VR02XP-TR, POWERSO-36 EP	Dual Automotive Linear Voltage Regulator with Configurable Output Voltage (2x250mA Current Capability)	ST	L99VR02XP-TR
	4			WA-SCRW Pan Head Screw w. cross slot M3	WE	97790603211
	4			WA-SPAIL Plastic Spacer Stud, metric, internal/ internal	WE	970060365
	15			WR-PHD 2.00 mm Jumper with Test Point	WE	60800213421
	2			WR-PHD 2.54 mm Multi-Jumper Jumper with Test Point	WE	60900213621
	4			WR-WTB 2.54 mm Female Terminal Housing	WE	61900711621
	30			WR-WTB 2.54 mm Female Crimp Contact	WE	61900113722DEC

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