

ATV Control BOM Rev 1.0

Quantity	References	Value	Description	Manufacturer	Part Number	Vendor	Vendor Part Number
1	C1	1uF	CAP, 0805, 1uF, 10%, X7S, 100V	Murata Electronics	GRJ21BC72A105KE11L	Mouser	81-GRJ21BC72A105KE1L
4	C2 C12 C13 C27	0.47uF	CAP, 0603, 0.47uF, 10%, X7R, 16V	Murata Electronics	GRM188R71C474KA88	Mouser	81-GRM188R71C474KA88
1	C3	10uF	CAP, A Size, 10uF, 20%, Tantalum, 16V	Kemet	T491A106M016AT7280	Mouser	80-T491A106M016AT7280
4	C4 C7 C14 C21	47nF	CAP, 0603, 47nF, 10%, X8R, 100V	Murata Electronics	GCJ188R92A473KA1D	Mouser	81-GCJ188R92A473KA1D
4	C5 C8 C15 C22	0.1uF	CAP, 0603, 0.1uF, 10%, X8R, 100V	Murata Electronics	GCJ188R72A104KA1D	Mouser	81-GCJ188R72A104KA1D
14	C6 C9 C10 C11 C16 C17 C18 C19 C20 C23 C24 C25 C26 C28	10nF	CAP, 0603, 10nF, 10%, X7R, 100V	Murata Electronics	GCM188R72A103KA7D	Mouser	81-GCM188R72A103KA7D
1	D1	SM15T33CA	TVS, SMC, Bi-directional, 1500W	ST	SM15T33CA	Mouser	511-SM15T33CA
8	R1 R2 R4 R11 R13 R23 R26 R28	4.7k	RES, 0603, 4.7k, 1/10W, 5%, T100	Yageo	RC0603JR-074K7L	Mouser	603-RC0603JR-074K7L
1	R3	2.15M	RES, 0603, 2.15M, 1/10W, 1%, T100	Vishay	CRCW06032M15FKEA	Mouser	71-CRCW06032M15FKEA
2	R5 R17	1.27M	RES, 0603, 1.27M, 1/10W, 1%, T100	Vishay	CRCW06031M27FKEA	Mouser	71-CRCW06031M27FKEA
8	R6 R8 R18 R25 R31 R33 R34 R36	10k	RES, 0603, 10k, 1/10W, 5%, T100	Yageo	RC0603JR-0710KL	Mouser	603-RC0603JR-0710KL
4	R7 R9 R19 R35	47R	RES, 0603, 47R, 1/10W, 5%, T100	Yageo	RC0603FR-0747RL	Mouser	603-RC0603FR-0747RL
8	R10 R14 R16 R20 R21 R22 R30 R32	100k	RES, 0603, 100k, 1/10W, 5%, T100	Yageo	RC0603JR-07100KL	Mouser	603-RC0603JR-07100KL
5	R12 R15 R24 R27 R29	560R	RES, 1206, 560R, 1/2W, 5%, T200	Panasonic	ERJ-8GEYJ561V	Mouser	667-ERJ-8GEYJ561V
1	U1	LT3014IDD	IC, DFN-8, Linear Regulator, LDO, 80V, 20mA	Linear Tech	LT3014BHVIDD#PBF	Mouser	584-LT3014BHVIDD#PBF
1	U2	BTS7002-1EPP	IC, TSDSO-14, High-Side Switch, Single, 21A	Infineon	BTS70021EPPXUMA1	Mouser	726-BTS70021EPPXUMA1
1	U3	BTS7008-2EPA	IC, TSDSO-14, High-Side Switch, Dual, 7.5A	Infineon	BTS70082EPAXUMA1	Mouser	726-BTS70082EPAXUMA1
2	U4 U7	74LVC3G17	IC, VSSOP-8, Triple Schmitt-Trigger Buffer	TI	SN74LVC3G17DCUR	Mouser	595-SN74LVC3G17DCUR
1	U5	BTS7200-2EPA	IC, TSDSO-14, High-Side Switch, Dual, 1.2A	Infineon	BTS72002EPAXUMA1	Mouser	726-BTS72002EPAXUMA1
1	U6	ATXMEGA8E5-M4U	IC, QFN-32, 8/16-bit AVR XMEGA Microcontroller, 8kB	Atmel	ATXMEGA8E5-M4U	Mouser	556-ATXMEGA8E5-M4U
1	U8	BTS7200-4EPA	IC, TSDSO-14, High-Side Switch, Quad, 1A	Infineon	BTS72004EPAXUMA1	Mouser	726-BTS72004EPAXUMA1