

BOM for Overhead Controller

Designator	Order code	Quantity	Value
C1, C2, C8, C13, C15, C18, C19, C26, C29, C32, C34, C36	445-1316-1-ND	12	100nF/25V
C3, C6, C9, C14, C20, C27, C28, C33, C35, C37	445-1328-1-ND	10	1uF/10V
C4, C5, C16, C17, C22, C23, C24, C25, C30, C31, C38, C39	445-1273-1-ND	12	22pF
C7	493-1040-ND	1	100uF/16V
C10, C12	DNO	2	NM/47uF/10V
C11, C40, C41	490-3907-1-ND	3	47uF/10V
C21, R1, R3, R10, R40, R54, R59, R60	DNO	8	NM
CON1	3 pin jumper	1	Int/Ext programming
CON2	Free pins	1	Free pins
CON3	2x3 position pin header	1	Programming connector
CON4	2 position pin header	1	Debugging connector
CON5	2 position pin header	1	Rescue clock output
IC1	ATMEGA328-AU-ND	1	Atmega328
IC2	296-27129-1-ND	1	TUSB2036
IC3	TC2185-3.3VCCT-ND	1	LDO
IC4	768-1007-1-ND	1	FTDI USB
IC5	AT90USB162-16AU-ND	1	AT90USB162
IR-LED1 to IR-LED10	751-1208-ND	10	TSFF5410 (44 deg)
L1, L2, L3	445-5223-1-ND	3	1k @ 100MHz
LED1, LED2, LED3, LED6, LED7, LED8, LED9	475-1409-1-ND	7	LED Green
LED4, LED5	LNJ937W8CRACT-ND	2	LED Blue
Q1, Q2, Q3, Q4	BSS138KCT-ND	4	BSS138
Q6	ZXMN2B01FCT-ND	1	ZXMN2B01FTA
R2, R36, R52, R53, R57, R58	P47.0KHCT-ND	6	47k
R4, R5, R6, R7	P2.0KGCT-ND	4	2k0
R8, R9, R12, R16, R17, R25, R26, R41, R55, R56, R61, R62	P1.00KHCT-ND	12	1k
R11, R13, R14, R15	P300GCT-ND	4	300R
R18, R19, R20, R21, R22, R23, R24	P28.0KHCT-ND	7	28k
R27, R34	P100HCT-ND	2	100R
R28, R29, R30, R31, R32	RMCF0805JT1R00CT-ND	5	1R0
R37	P1.5KGCT-ND	1	1k5
R38, R39, R42, R43, R48, R49	P27GCT-ND	6	27R
R44	RMCF0603ZT0R00CT-ND	1	0R
R45, R46, R47, R50, R51	P15KGCT-ND	5	15k
USB1	151-1083-ND	1	USB Connector
XTAL1	535-10212-1-ND	1	8MHz
XTAL2	XC1000CT-ND	1	6MHz
XTAL3	535-10226-1-ND	1	16MHz