

ALM014 BOM

Qty	Parts	Value	Device	Package	Description	MF
1	R38	1M	RESISTOR0603	R0603		
14	R1, R3, R7, R10, R12, R14, R22, R32, R33, R34, R36, R46, R9, R16	100K	RESISTOR0603	R0603		
15	R15, R17, R18, R19, R20, R23, R25, R27, R30, R35, R53, R39, R11, R29, R31	49.9k	RESISTOR0603	R0603		
4	R6, R48, R50, R51	33K	RESISTOR0603	R0603		
12	R2, R4, R5, R21, R28, R42, R45, R47, R40, R41, R43, R44	10K	RESISTOR0603	R0603		
3	R8, R13, R49	1K	RESISTOR0603	R0603		
2	R26, R37	2.2K	RESISTOR0603	R0603		
13	C3, C7, C8, C13, C14, C15, C17, C18, C22, C28, C29, C31, C41	100n	CAPACITOR0603	C0603		
4	C11, C16, C23, C24	10n	CAPACITOR0603	C0603		
2	C21, C9	1n	CAPACITOR0603	C0603		
2	C6, C27	47pf	CAPACITOR0603	C0603		
2	C19, C20	20pf	CAPACITOR0603	C0603		
5	C1, C2, C5, C12, C26	10uf / 25V	CPOL-EUB	PANASONIC_B	POLARIZED CAPACITOR, European symbol	Panasonic EEHA1E100WR (or equiv)
2	C4, C25	1uf / 25V	CPOL-EUB	PANASONIC_B	POLARIZED CAPACITOR, European symbol	Panasonic EEE1HA010SR (or equiv)
2	D3, D13	BAT54S	BAT54S	SOT23	Schottky Diodes	BAT45S
2	D1, D2	RS 301-906	DIODESMB	SMB-DIODE	Diode	Vishay VS-MBRS130LTRPBF (or similar)
	Additional parts below:					
5	IC1, IC2, IC5, IC7, IC8	TL072D	TL072D	SO08	OP AMP	TL072
1	IC3	MCP6004	MCP6004	SO14	OP AMP	MCP6004
1	IC6	ATMEGA644A	ATMEGA644A	TQFP44	MCU	Mouser 556-ATMEGA644A-AU
1	U1	SN74LVC2G14DBV	SN74LVC2G14DBV	SOT23-6	DUAL SCHMITT-TRIGGER INVERTER	Mouser 595-SN74LVC2G14DBVR
1	U3	7805	VREG-7805-DPAK2	VREG-7805-DPAK2		Mouser L7805CD2T-TR
1	Y2	8M10AHC49T	8M10AHC49T	HC49U	20Mhz Crystal	Mouser 420-200-20-5PX

All caps at least 16v. All resistors 1% at least 0.1 watt