

CO nixie clock kit 2016

Controller v2.1

www.circuitsonline.net



Programmed for ZM1180 nixie board

Specifications:

- 12VDC 500mA supply
- ATmega8 with software included
- RTC with backup battery
- Schematic included

Part	Value	Package
B1	CR1220	CR1220
C1-C3	100u 25V	E2.5-6
C4	220n	1206
C5, C9-C11, C14-C16, C18	100n	1206
C6	2n2	1206
C7	100p 200V	1206
C8	2u2 200V	E3.5-8
C12, C13, C17	15p	1206
D1	S1A	SMA
D2	UF4004	SOD57
D3, D4	BAT54T1G	SOD123
J1B	Power jack	DC-9
J2	supply	1x4 female
J3	display	1x6 female
J7	ICSP	2x3 boxed
L1	150u	SLF
L2	10u	1206
Q1	STP11NK40Z	TO220
R1	1k	1206
R2, R7-R9	10k	1206
R3	56k	1206
R4	33k	1206
R5	330k	1206
R6	4k7	1206
S1-S3	Tactile	6mm angled
U1	LM7805	TO220
U2	NE555P	DIL-8
U3	TL431CLP	TO92
U4	ATmega8-16PU	DIL-28P3 (socket)
U5	PCF8583P	DIL-8 (socket)
X2	32k768	TC26

SMD parts coding

Part	Value	Coding
C4	220n	black
C5, C9-C11, C14-C16, C18	100n	only strip of 8
C6	2n2	green
C7	100p 200V	blue
C12, C13, C17	15p	only strip of 3
L2	10u	red
R1	1k	1001
R2, R7-R9	10k	1002
R3	56k	5602
R4	33k	3302
R5	330k	3303
R6	4k7	472

