

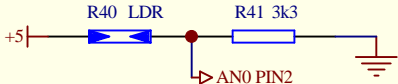
IF 1Hz / 50Hz / 60 Hz:  
Pin4 = Blink 1Hz  
Pin5 = Blink 0.5Hz  
Pin7 = AM/PM indicator  
It is optional to use -  
those outputs.  
X1 4MHz Resonator  
C30 and C31 not mounted.

IF DCF77 Option:  
D30 is Dual LED GREEN/RED signal indicator.  
D31 is a normal RED led, Change 1min = DCF OK,  
Fast blink = DCF bad for 24hrs warning.  
X1 4.000000 Crystal 30ppm  
C30 and C31 crystal loading, ceramic NP0/COG type

The software 5.3 for this version PCB 1.08 has autodetection of all four clock input modes !!  
If there is a LOW pulse signal on the DCF77 input pin, while powering up, it will go into DCF mode,  
else it will measure the input clock frequency and set right divider mode. Please read documentation for more information about how the different clock modes work

For this B7971 two digit mode  
Use R8 and R9 = 4k7  
Adjust anode voltage to = 180V

**LDR OPTION (NOT INCLUDED IN KIT)**



LDR option is automatically disabled if voltage is over 4.7

AN0 voltage	DIMM level
2.94 - 4.7V	3 = Max (fading mode)
2.25 - 2.74V	2
1.47 - 2.15V	1
0.78 - 1.37V	0 = Min
0.11 - 0.76	Reserved
0.0 - 0.1	S2 switch active

To adjust light levels to your need,  
simply adjust R41 and R16 values a bit

Title		<b>NIXIE CLOCK OZ2CPU</b>	Special muxed 7971
Size		Thomas Scherrer & Claus Urbach (webx.dk & nixieclocks.de)	
Number		<b>Schematic for nixie clock PCB 1.08</b>	Revision
B			<b>8c-2-B7971</b>
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File:	C:\108sm.ddb	Drawn By: OZ2CPU Thomas Scherrer	