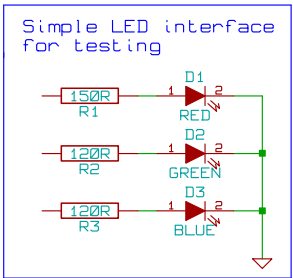
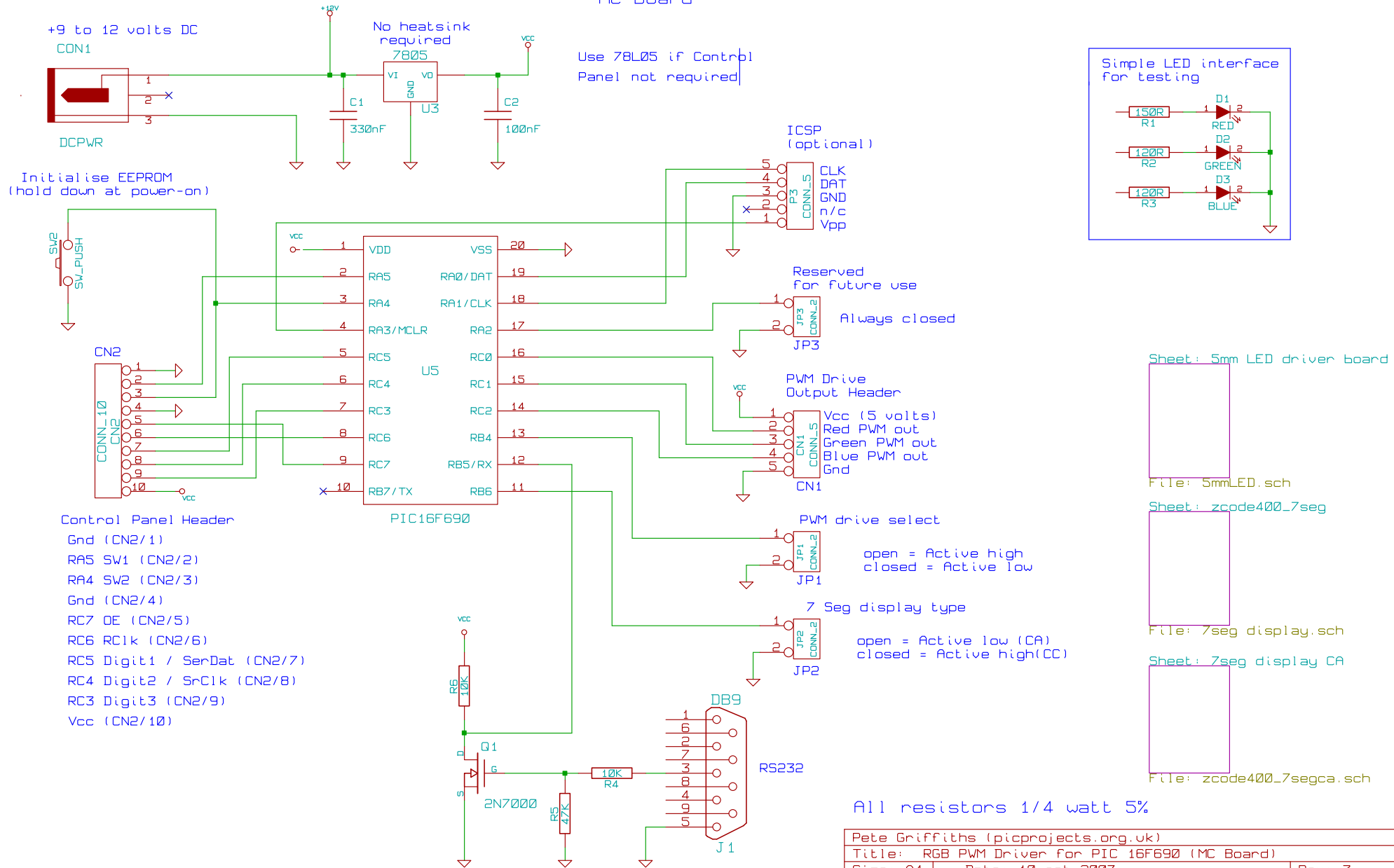


Serial Addressable PWM RGB LED Driver MC Board



Sheet: 5mm LED driver board

File: 5mmLED.sch

Sheet: zcode400_7seg

File: 7seg display.sch

Sheet: 7seg display CA

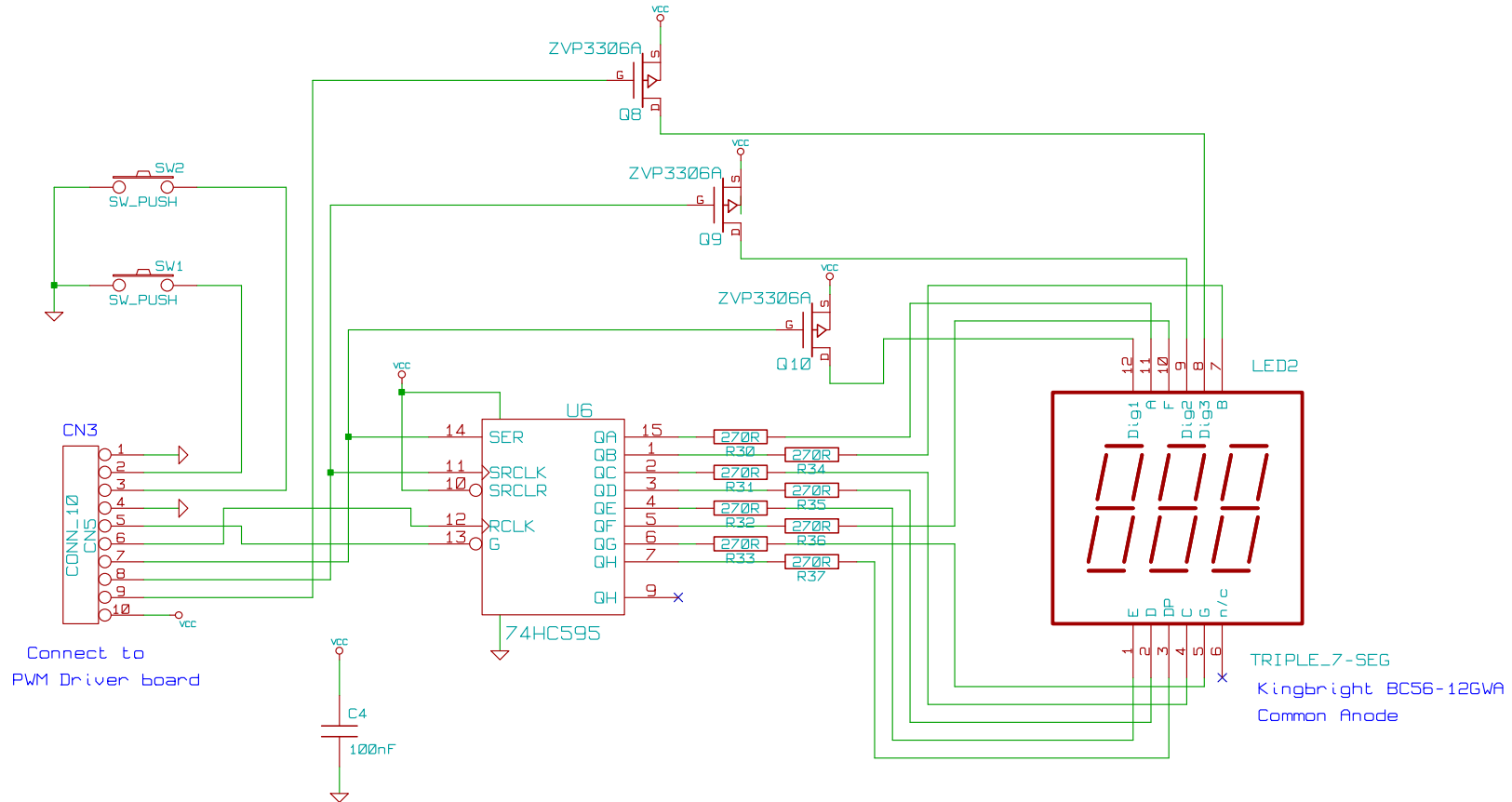
File: zcode400_7segca.sch

| | | |
|---|-----------------------|------------|
| Pete Griffiths (picprojects.org.uk) | | |
| Title: RGB PWM Driver for PIC 16F690 (MC Board) | | |
| Size: A4 | Date: 10 oct 2007 | Rev: 3 |
| KiCad E.D.A. | EESchema (2007-07-09) | Sheet: 1/4 |

PWM Driver Control Panel

(not supported in free firmware)

for Common Anode 7 segment display

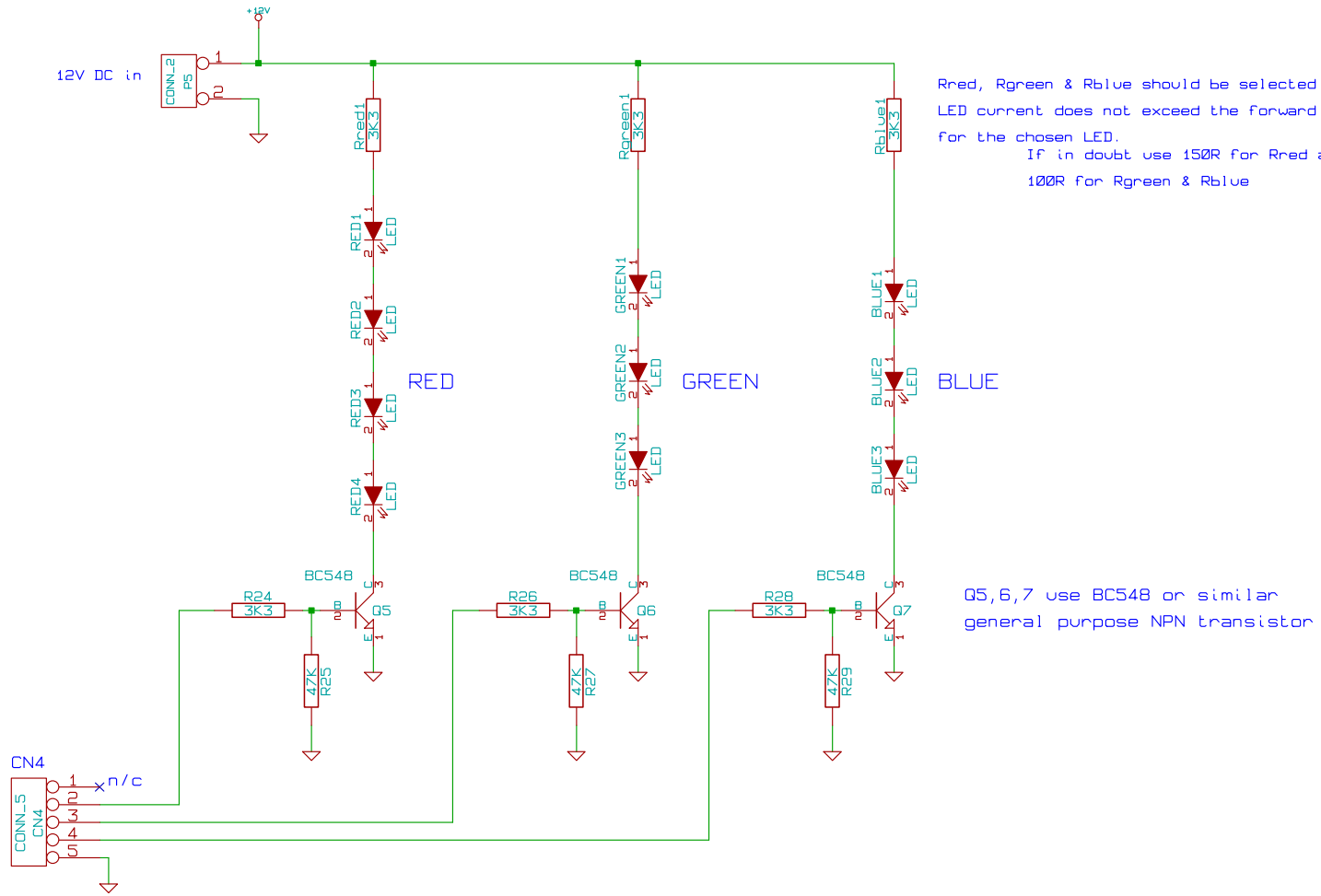


The control panel hardware is only supported in the full version of the firmware (zcode690a.HEX)

All resistors 1/4watt 5%

| | | |
|--|-------------------|------------|
| Pete Griffiths (picprojects.org.uk) | | |
| Title: Control Panel for Z690 RGB PWM Driver (full version) CA | | |
| Size: A4 | Date: 10 oct 2007 | Rev: |
| KiCad E.D.A. EESchema (2007-07-09) | | Sheet: 2/4 |

Simple 5mm LED driver board



Red, Rgreen & Rblue should be selected to ensure LED current does not exceed the forward current (IF) for the chosen LED.
 If in doubt use 150R for Rred and 100R for Rgreen & Rblue

RED

GREEN

BLUE

Q5,6,7 use BC548 or similar general purpose NPN transistor

to CN1 (MC board)

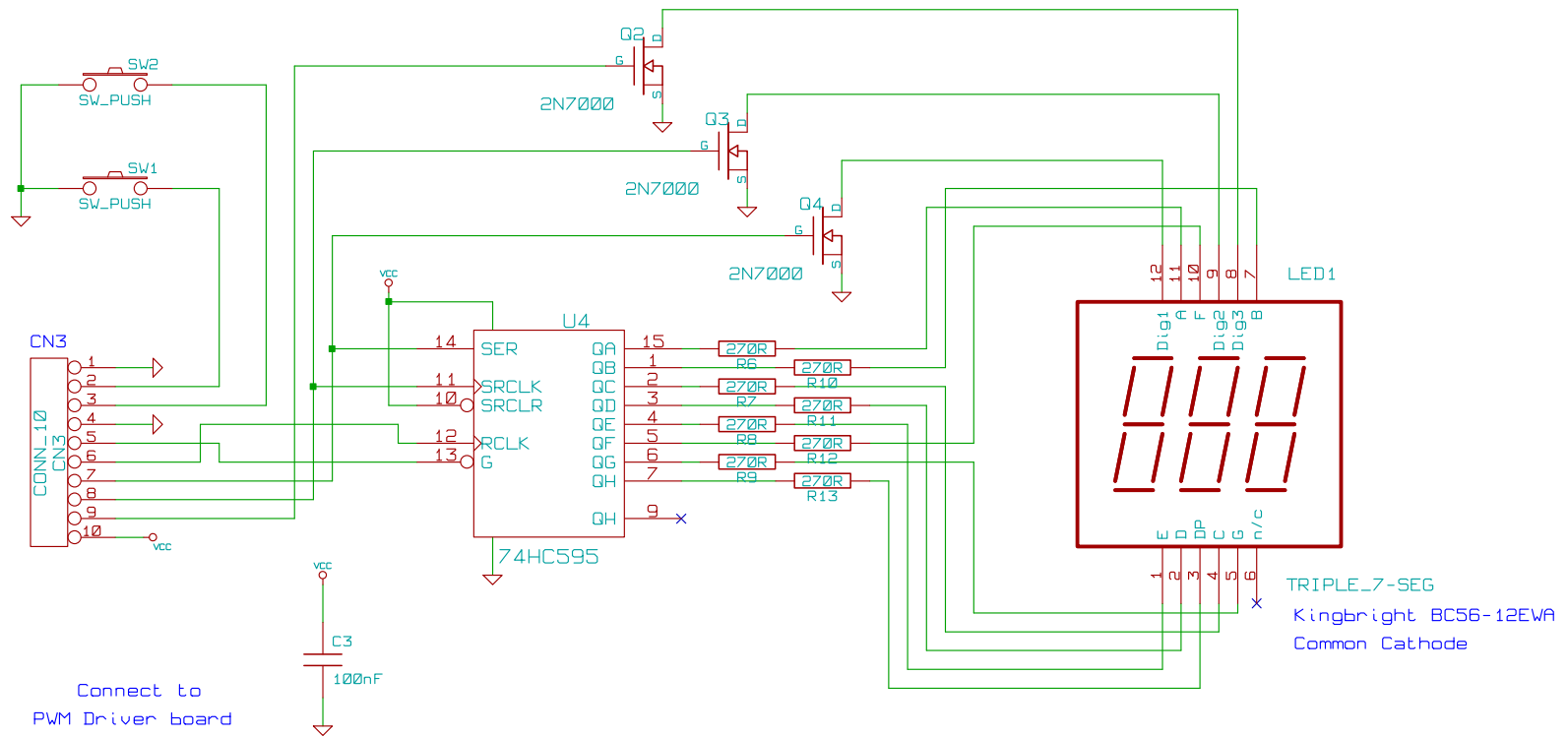
All resistors 1/4 watt 5%

| | | | |
|-------------------------------------|-------------------|------------|--|
| Pete Griffiths (picprojects.org.uk) | | Rev: | |
| Title: Simple 5mm RGB LED board | | Sheet: 3/4 | |
| Size: A4 | Date: 10 oct 2007 | | |
| KiCad E.D.A. EESchema (2007-07-09) | | | |

PWM Driver Control Panel

(not supported in free firmware)

for Common Cathode 7 segment display



The control panel hardware is only supported in the full version of the firmware (zcode690a.HEX)

All resistors 1/4watt 5%

| | | |
|--|-------------------|------------|
| Pete Griffiths (picprojects.org.uk) | | |
| Title: Control Panel for Z690 RGB PWM Driver (full version) CC | | |
| Size: A4 | Date: 10 oct 2007 | Rev: 1 |
| KiCad E.D.A. EESchema (2007-07-09) | | Sheet: 4/4 |