Calculation for Lab 2 Changxu Yan The Voltage from Port B and Port A measured 4.78 V will be allowed on board The max current is from A  $R_{6} = \frac{(4.78 - 0.7) V}{(0.1 / 100) A} = 4.08 k_{sc}$ Vcc = 4,78V Port R6 406K 07 PNP

R1-5

PNP  $R_{1}-R_{5} = \frac{(4.78-0.2-0.7)}{(0.1/100)} = 388 k_{2}$   $P_{11}-R_{18} = \frac{(4.78-0.2-0.2)V}{(0.01)} = +38$ Port 3 R10-18 R6 We chose 47ks RI-RE R11-R18 me chose 47052 Carrent on leds are 12161 = 0.46 mg Frequency 166 Hz positive duty cycle 66,7%

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