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	Ju Adres	to single	component				
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Reset GPI 0 specification Register / Interface Config / GPTO/ Clock Define LCD made ( start LCD (refresh, pixels, porches, clock), pms) Delno WH made bluetooth mode / pairing aperation man loop before man loop though bund polling board RFID sha SPI mtobee Use what to done take + # bladers before decling for RFID Each loop is data update for display (single frome, not ton at changes) better for memory space poll for RFID, poll for bottony, Wenneld for some pattery problems?

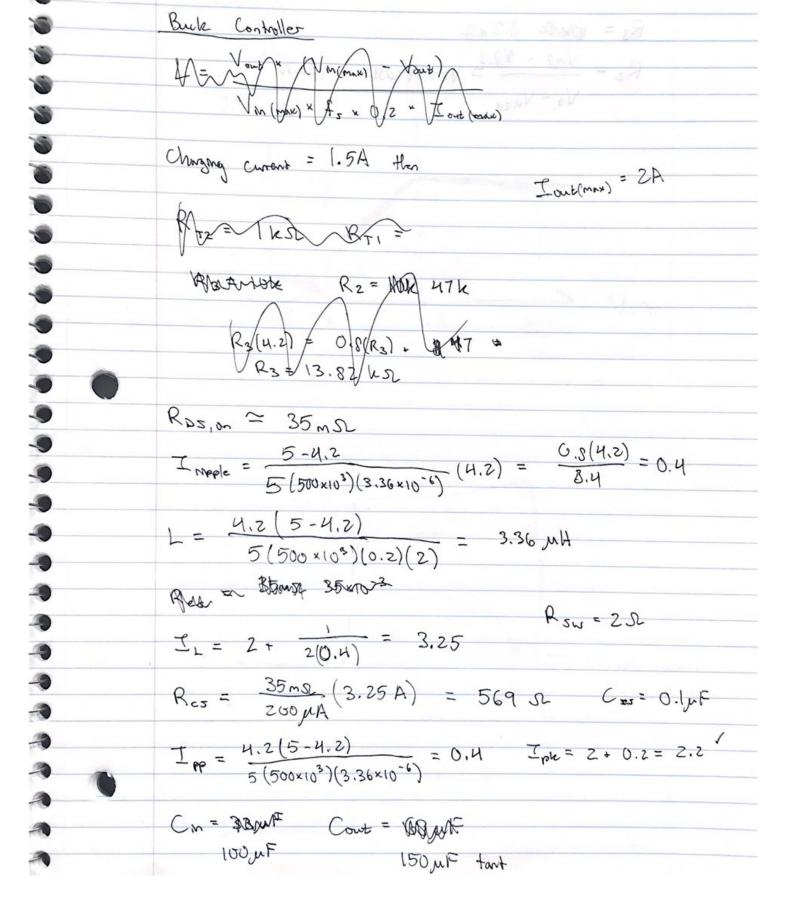
## PM(max) = 0.48 = 0.048 = 0.7W 210 mA Pout = 9.6(0.05) = 0.48W Im (max)

Vin(min) = 3.3V Vin(max) = 3.7V Vout = 9.6V I out (max) = 50 mA (40 \* 1,25) D = 1 - Vincomy \* 1 = 1 - 3.3 + ONB DING DAGE 0.7

Vont = 1 - 3.3 + ONB DING DAGE 0.7 D = 0.76 CCM for us sme LED backlight \* Asome low estrency 2=0.7 Switching consideration 1 VM(mx) = 3.7V I penk = Tout (max) + I mple = Pro(max) + A Promax) a depends an inductor Inductor - large = 5/04 start (recommended ferrite small = higher current ripple core) (low & resistance coil)

Vm = 3.3-3.7 Im = 210 (max) mA Pm = 0.7 W Vout = 9.6 I out = 50 (max) mA Pout = 0.48W ANA resource with L=10 MH / VD=0.4V 500 WHZ=f Ipk = Voub + Vb. Iout + (Voub + Vb - Vm) · Vm  $\frac{9.6+0.4}{3.3}(0.05) + \frac{(9.6+0.4-3.3)(3.3)}{2(9.6+0.4)(500\times10^{3})(10\times10^{-6})}$ VD= 0,4V Risc = 280 KS2 -> 500 KHZ Rduty = 230-250 ks2 -> 84-85 % max duty Csp ~ 0.05 MF RFB1 RAZVENOK L> 82k RFBZ = 9.5K =

Know LDO > - No restate source on other side 20 No more consent low (IA peak maybe from the monder cap every storange but this is inlikely and acceptable - var low grapout (good for source ongo 3-3.7 and output 3.3 - shows following when below 3.3 - All accepts up to 1.5A current - LDO for low noise and EMI around computer PONTS + RF signals (charge Buch for larger drap + more efficiency + less rook for low EMI) Rz = R1 ( Nout ) - 1) = 17.138k Cm = 68 MF ESR < 100 mSZ V Cout = 33 MF (Tarbolum) ESR 5 1.652 Kelvin connect Caps Toto GND



	R3 = Alesse 8.2 ks					
	Rz = Vres x \$8.2 Warthbroke 1.93 un					
	Kz = = WWVPBWS 1.93 hr					
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