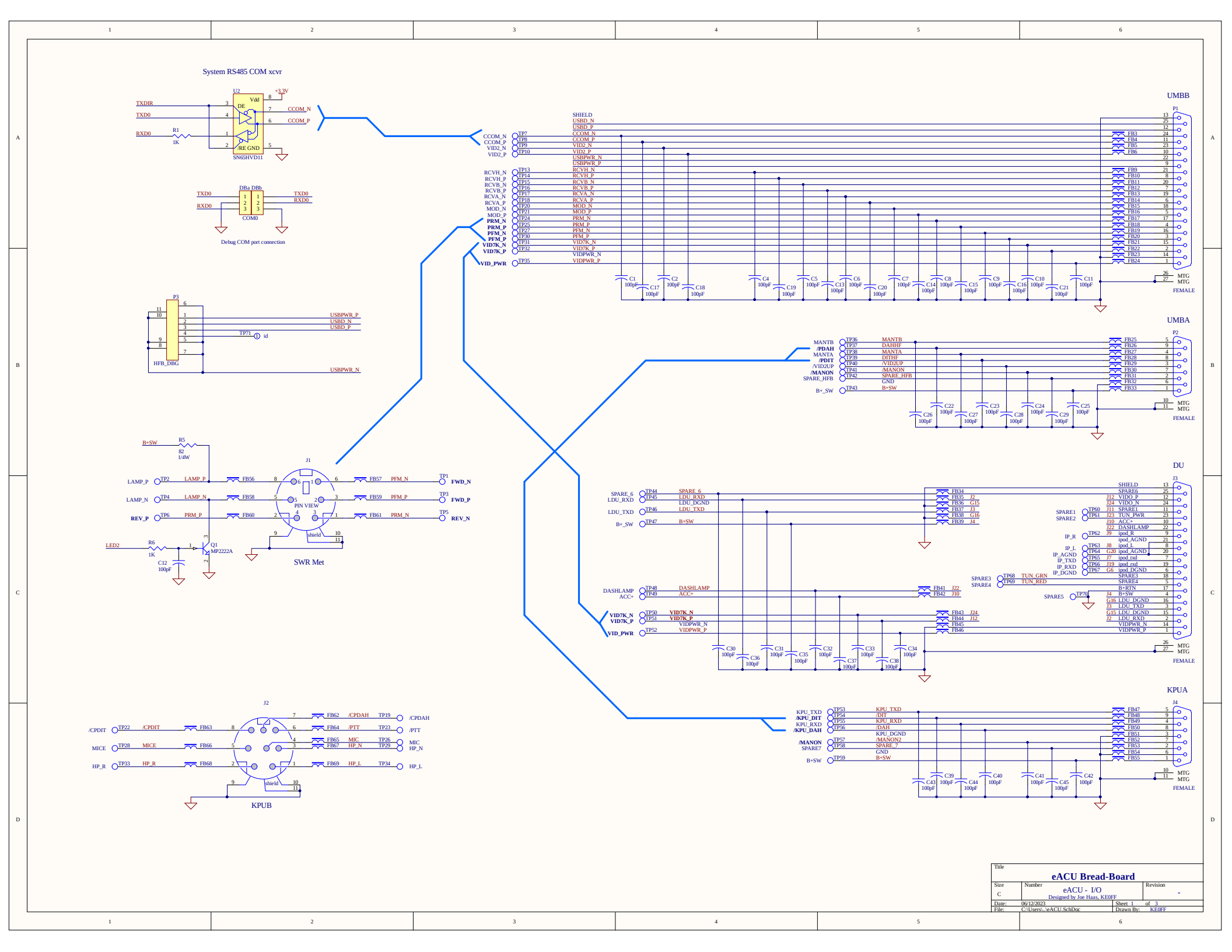
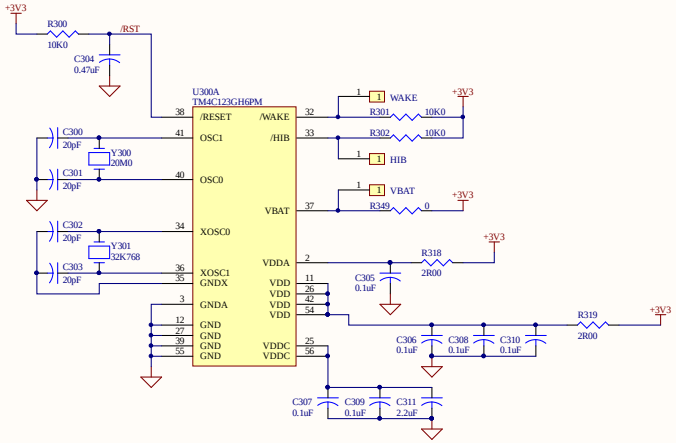
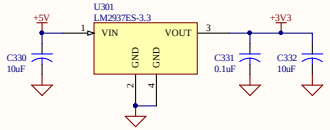
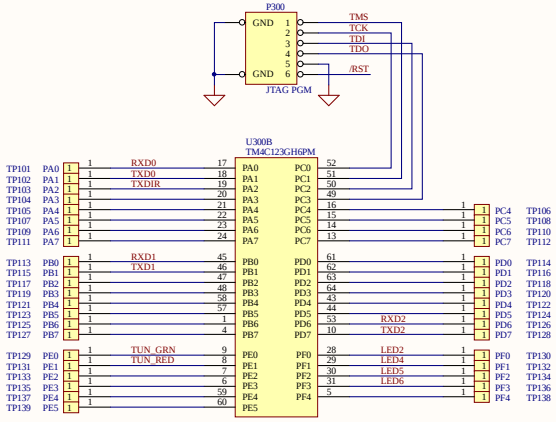
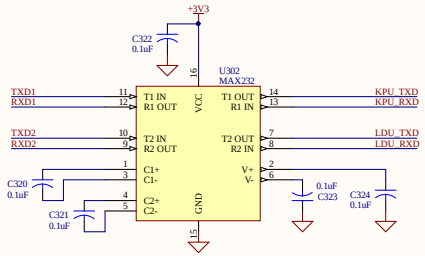


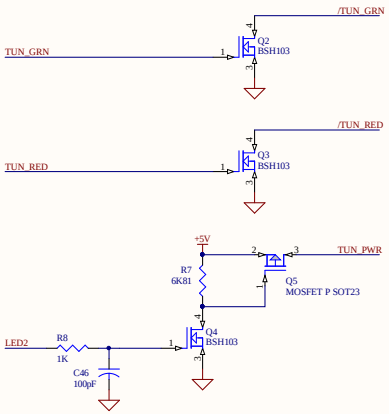
Title	**eACU Bread-Board**	
Size: C	Number: eACU - I/O Designed by Joe Haas, KE0FF	Revision: -
Date: 06/12/2023	Sheet 1 of 3	
File: C:\Users\..\eACU.SchDoc	Drawn By: KE0FF	



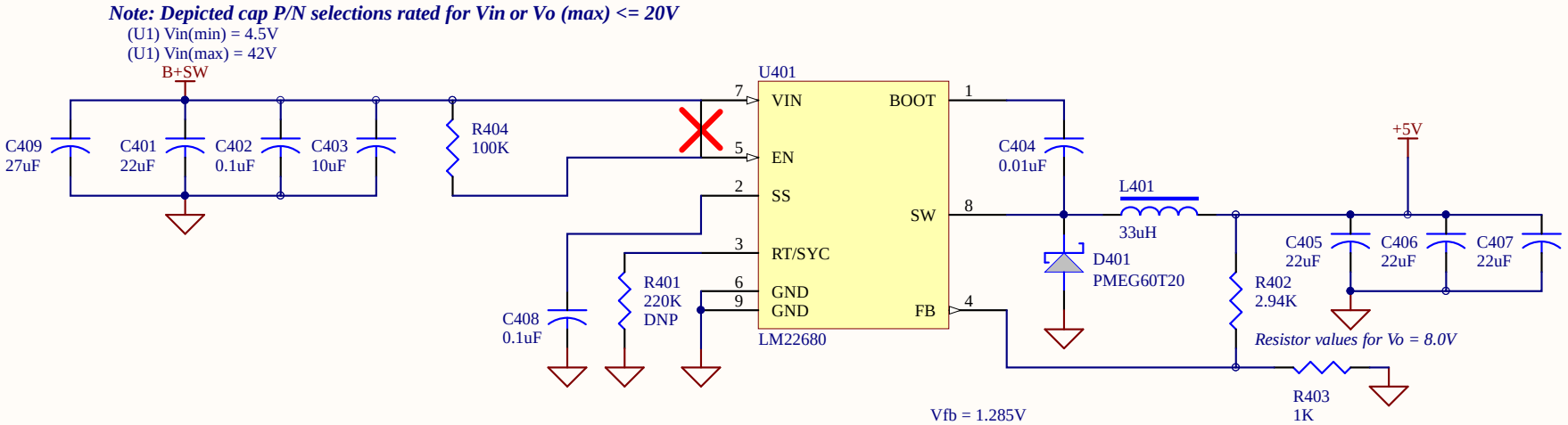








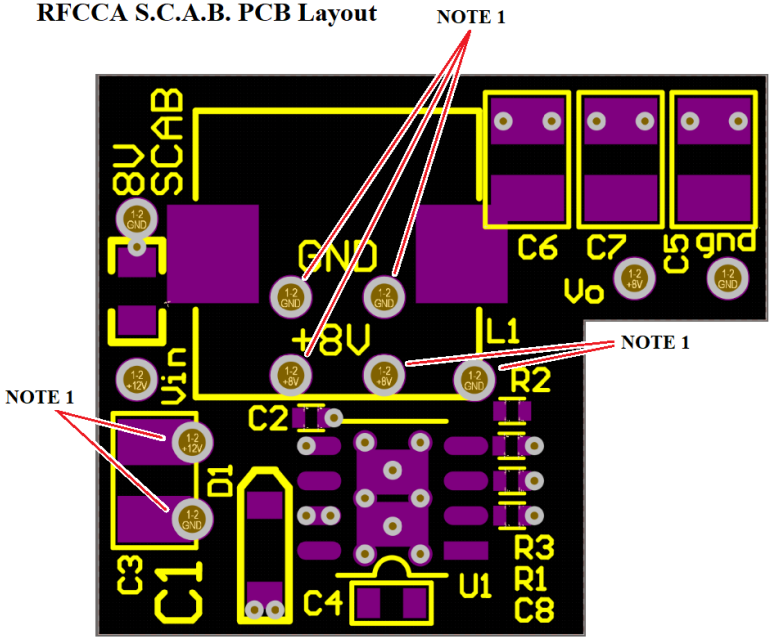
Title	**eACU Bread-Board**		
Size: C	Number: eACU - MCU Designed by Joe Haas, KE0FF		Revision: -
Date: 06/12/2023		Sheet 2 of 3	
File: C:\Users\..\eACU_mcux.SchDoc		Drawn By: KE0FF	



Vfb = 1.285V
R2 = ((Vo/Vfb) - 1) * R3
Vo(min) = 1.285V
(R2 + R3) <= 10K

R3 = 1.00K
Vo = 3.3V, R2 = 1.62K
Vo = 5.0V, R2 = 2.94K
Vo = 6.8V, R2 = 4.32K
Vo = 8.0V, R2 = 5.36K
Vo = 12V, R2 = 8.45K

RFCCA S.C.A.B. PCB Layout



ASSY Notes:
A1) Place and solder the following parts:
D1, C2, U1, C4, R2, R3, C8, C5, C6, C7
A2) Attach S.C.A.B. to RFCCA in the area of U8
per the install notes below

Install Notes:
1) Apply a layer of Kapton tape to bottom side
and expose via pads at "NOTE 1" locations (7 places)
2) Make sure the following components are removed
from the RFCCA and the pads are clear of excess solder:
R23, R25, C112, C129, C130, C132, U8
3) Align "NOTE 1" holes with pads on the RF CCA:
* C1 via holes line up with C112 pads
* "GND" and "+8V" via holes line up with C129 & C130 pads
* Via hole near R2 lines up with bottom pad of C132
4) Solder S.C.A.B. at via-hole locations (7 places)
5) Place and solder L1, C1, and C3
6) Desolder and lift pin 5 of U1. Place a 100K resistor between lifted lead and pad (0201 package is best option).
Alternately, place a 1206, 100K resistor between the lifted U1-5 and U1-7.

Title	**DC-DC SW Regulator, 42Vin, 2A Io** **S.C.A.B. for the RFCCA 8V supply**	
Size A	Number eACU - 5V reg Designed by Joe Haas, KE0FF	Revision -
Date:	06/12/2023	Sheet 3 of 3
File:	C:\Users\..\8V_SCAB.SchDoc	Drawn By: KE0FF