

SOT89 RF AMPLIFIER

ADL5536
 ADL5544
 ADL5610
 ADL5611
 HMC636
 HMC480

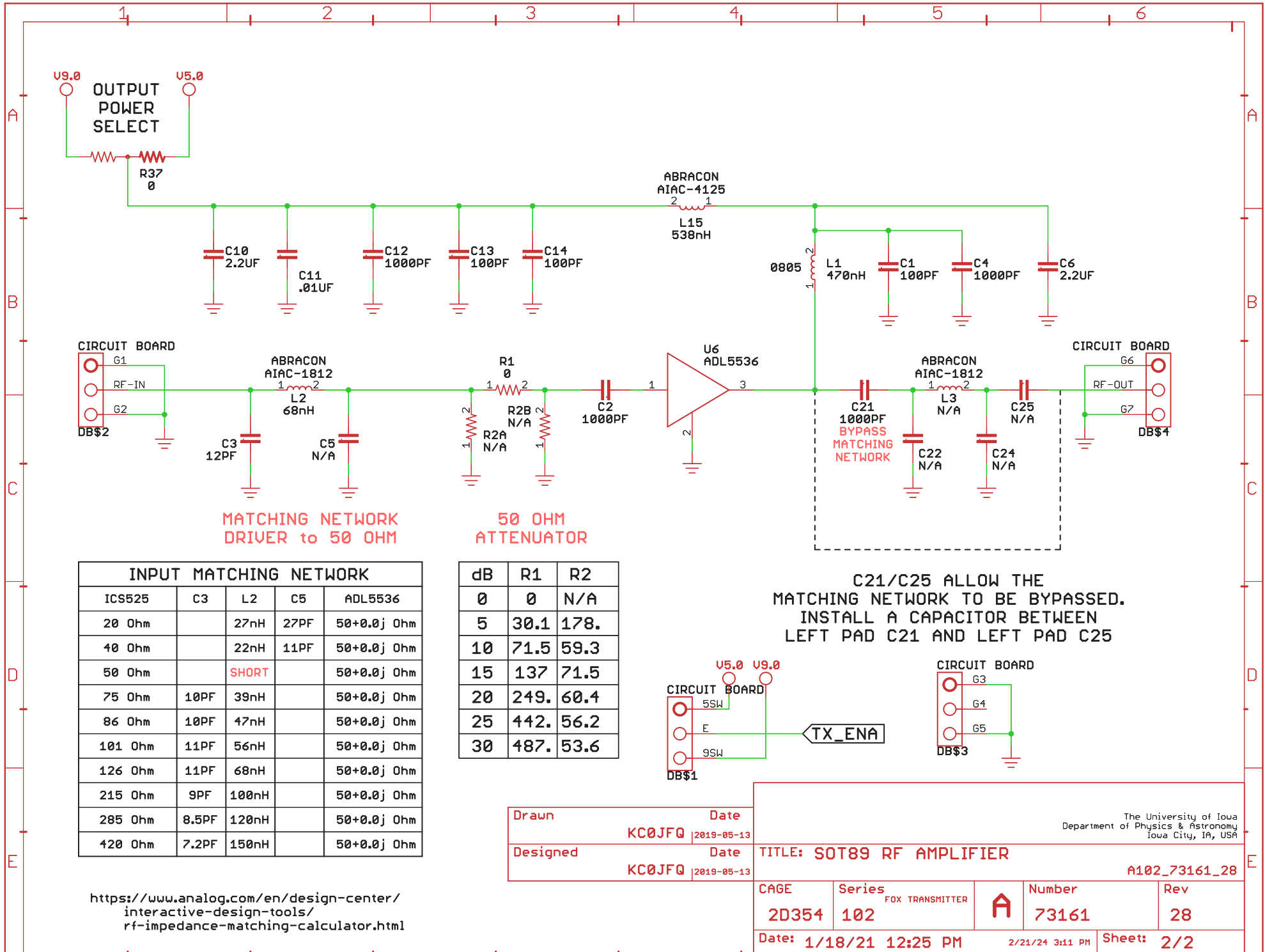
TOP_FULL			
DRAWING FRAME SHOWN ON CIRCUIT BOARD			

	BOT_COMPACT		
DRAWING FRAME SHOWN ON CIRCUIT BOARD			

		BOARD-ID	
DRAWING FRAME SHOWN ON CIRCUIT BOARD			
Drawn		Date	
	KC0JFQ	2019-05-13	
Designed		Date	
	KC0JFQ	2019-05-13	

The University of Iowa
 Department of Physics & Astronomy
 Iowa City, IA, USA

TITLE: SOT89 RF AMPLIFIER				A102_73161_28	
CAGE	Series	FOX TRANSMITTER	A	Number	Rev
2D354	102			73161	28
Date: 1/18/21 12:25 PM			2/21/24 3:11 PM	Sheet: 1/2	



**MATCHING NETWORK
DRIVER to 50 OHM**

**50 OHM
ATTENUATOR**

**C21/C25 ALLOW THE
MATCHING NETWORK TO BE BYPASSED.
INSTALL A CAPACITOR BETWEEN
LEFT PAD C21 AND LEFT PAD C25**

INPUT MATCHING NETWORK				
ICS525	C3	L2	C5	ADL5536
20 Ohm		27nH	27PF	50+0.0j Ohm
40 Ohm		22nH	11PF	50+0.0j Ohm
50 Ohm		SHORT		50+0.0j Ohm
75 Ohm	10PF	39nH		50+0.0j Ohm
86 Ohm	10PF	47nH		50+0.0j Ohm
101 Ohm	11PF	56nH		50+0.0j Ohm
126 Ohm	11PF	68nH		50+0.0j Ohm
215 Ohm	9PF	100nH		50+0.0j Ohm
285 Ohm	8.5PF	120nH		50+0.0j Ohm
420 Ohm	7.2PF	150nH		50+0.0j Ohm

dB	R1	R2
0	0	N/A
5	30.1	178.
10	71.5	59.3
15	137	71.5
20	249.	60.4
25	442.	56.2
30	487.	53.6

<https://www.analog.com/en/design-center/interactive-design-tools/rf-impedance-matching-calculator.html>

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