Design Notes:

Note: Shielding is required between the RF and digital sections to ensure that high frequency components of the digital signals are not coupled into the receiver. A ground plane between the two circuits (layers) should be sufficient to provide this shielding.

Tx Section

Note: Components in the Tx section must be kept close to their respective ends of the antenna to ensure a working transmitter. In addition, traces connecting these componets should be of a width to avoid stray inductances. In addition the grounds of C15, C16, and Y1 should be as physically close as possible, ideally a single point.

Component Notes: (These notes will appear in the BOM)

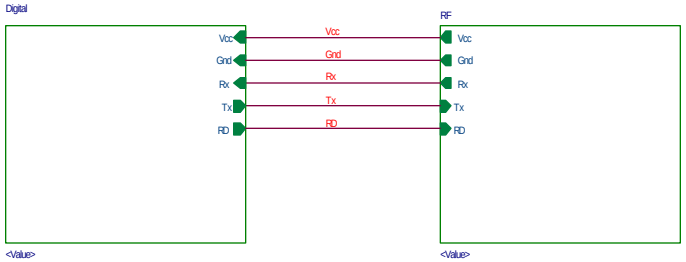
A1
All capacitors are type NPO unless otherwise noted

A2
All resistors, capacitors, and inductors have 5% tolerances unless otherwise noted

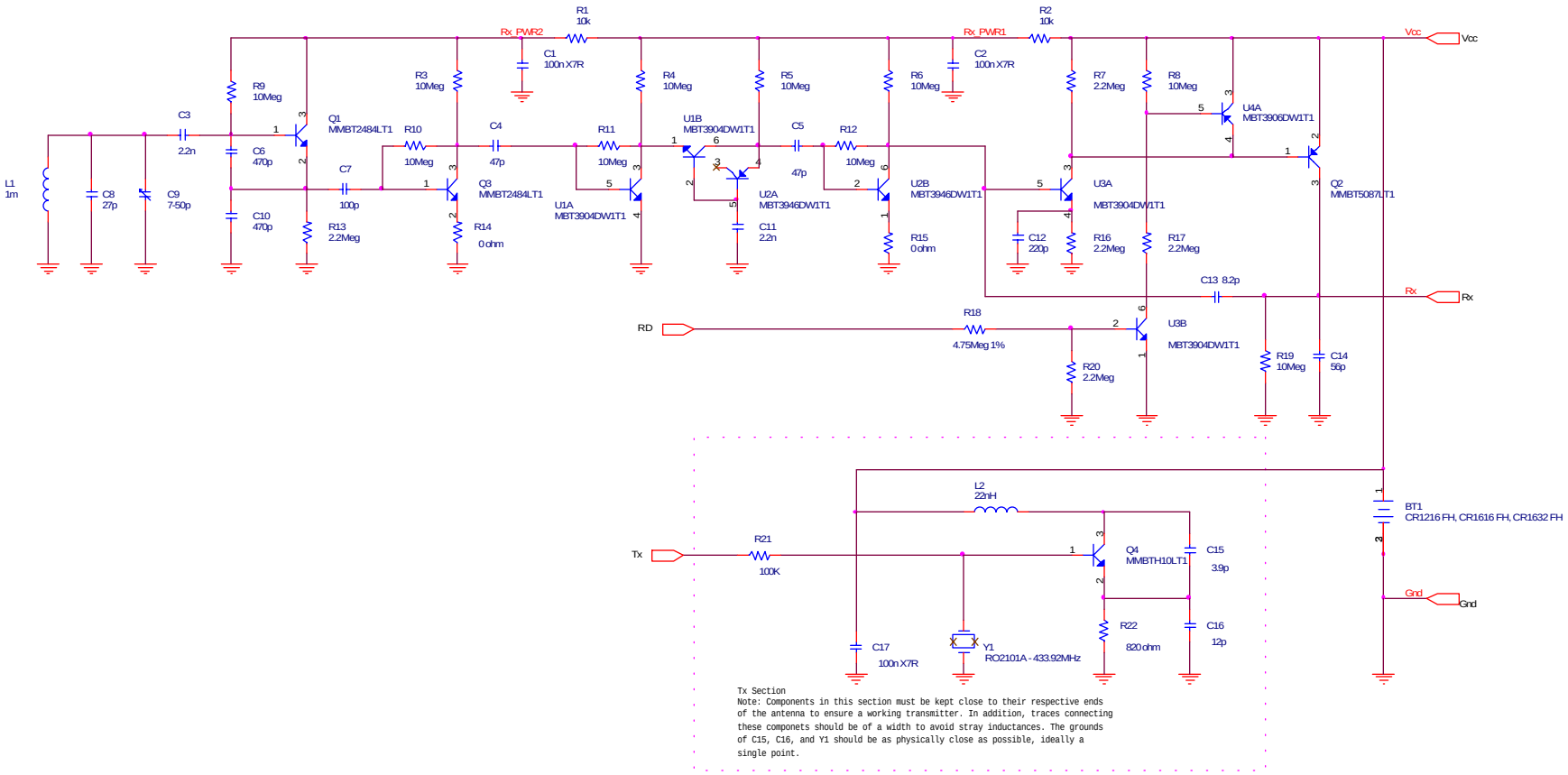
A3
All capacitor voltages are 16v or greater unless otherwise noted

Revision Status:

1. Initial Halo compatibleInfant tag design



EXI Wireless Systems	Confidential	
Title	Halo Infant/ECO Tag	
Size: B	Document Number: 911-000007-000	Rev: RD1
Date: Friday, February 04, 2000	Sheet 1 of 3	



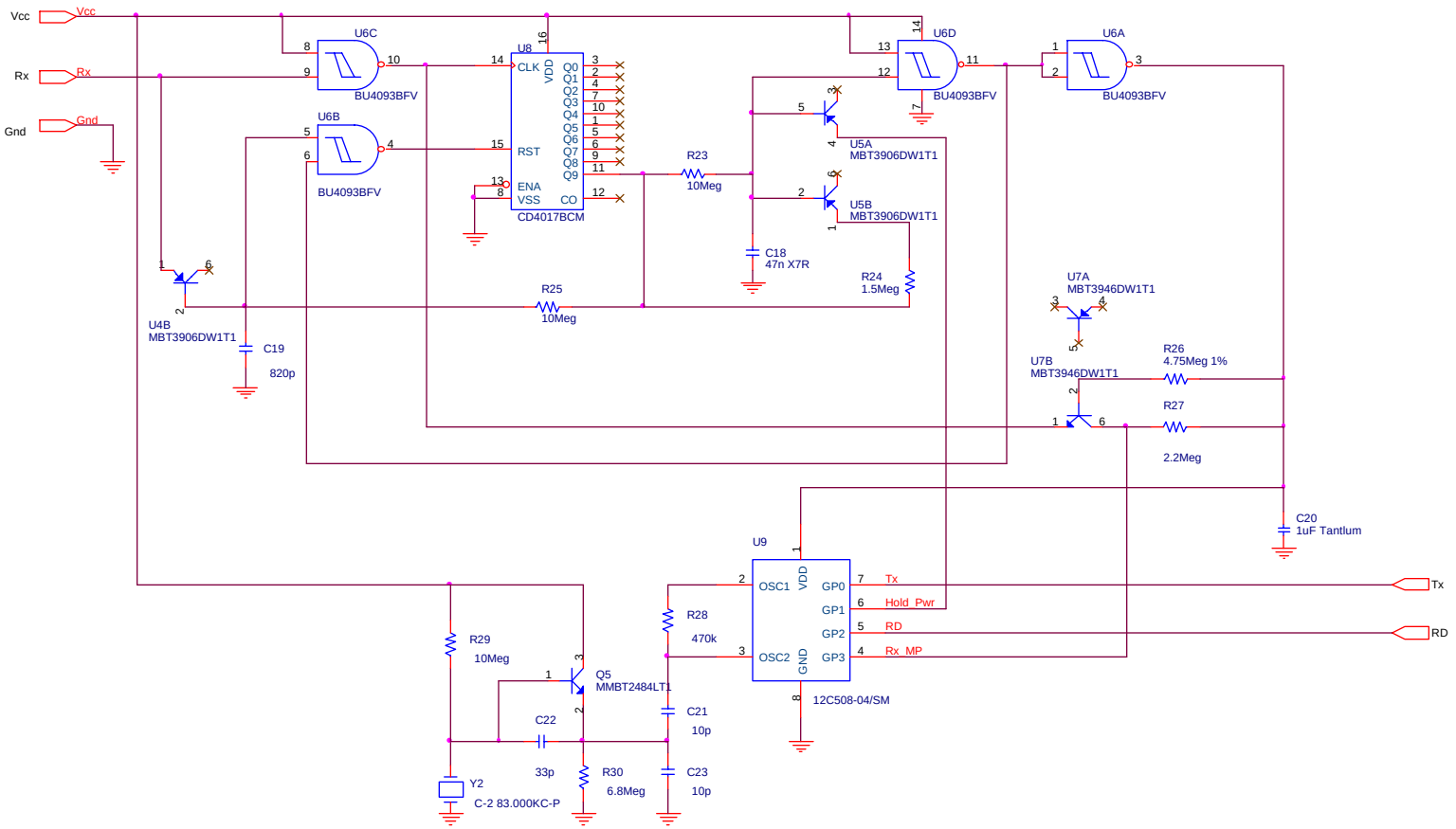
Tx Section
Note: Components in this section must be kept close to their respective ends of the antenna to ensure a working transmitter. In addition, traces connecting these componets should be of a width to avoid stray inductances. The grounds of C15, C16, and Y1 should be as physically close as possible, ideally a single point.

EXI Wireless Systems Confidential

Title: Halo Infant/ECO Tag - RF CCT.

Size	Document Number	Rev
B	911-000007-000	RD1

Date: Tuesday, March 14, 2000 Sheet 2 of 3



Title	Halo Infant/ECO Tag - Digital Circui	
Size B	Document Number 911-000007-000	Rev RD1
Date: Tuesday, February 22, 2000	Sheet 3 of 3	