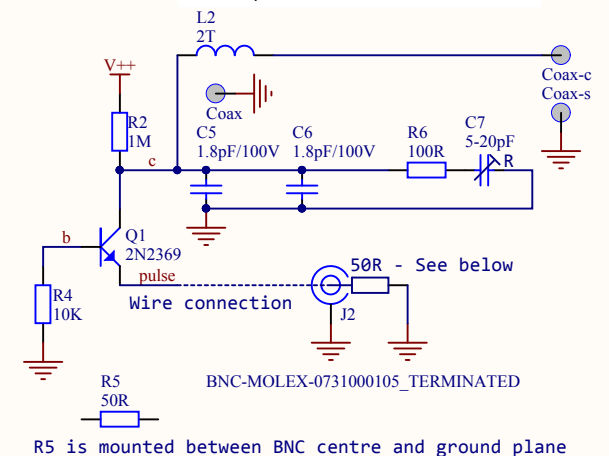


V2.0 - Revised  
 V2.1 - Added delay line hooks  
 V2.3 - Added mechanical vias for Q1  
 V2.4 - Added variable cap

May need to try several 2N2369s to obtain one that avalanches in a suitable fashion.  
 Try to obtain from different batches (suppliers)

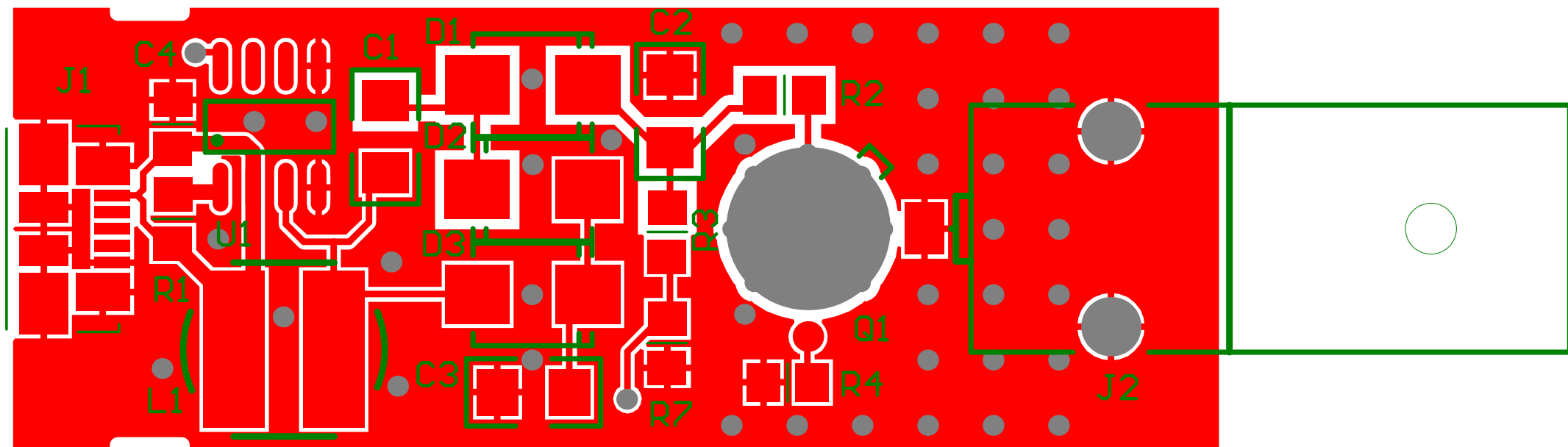
Adjust C5, C6, C7 to obtain appropriate magnitude of pulse. Can also replace C5 & C6 with 50R co-axial cable directly soldered to Q1 case and ground plane to extend pulse.

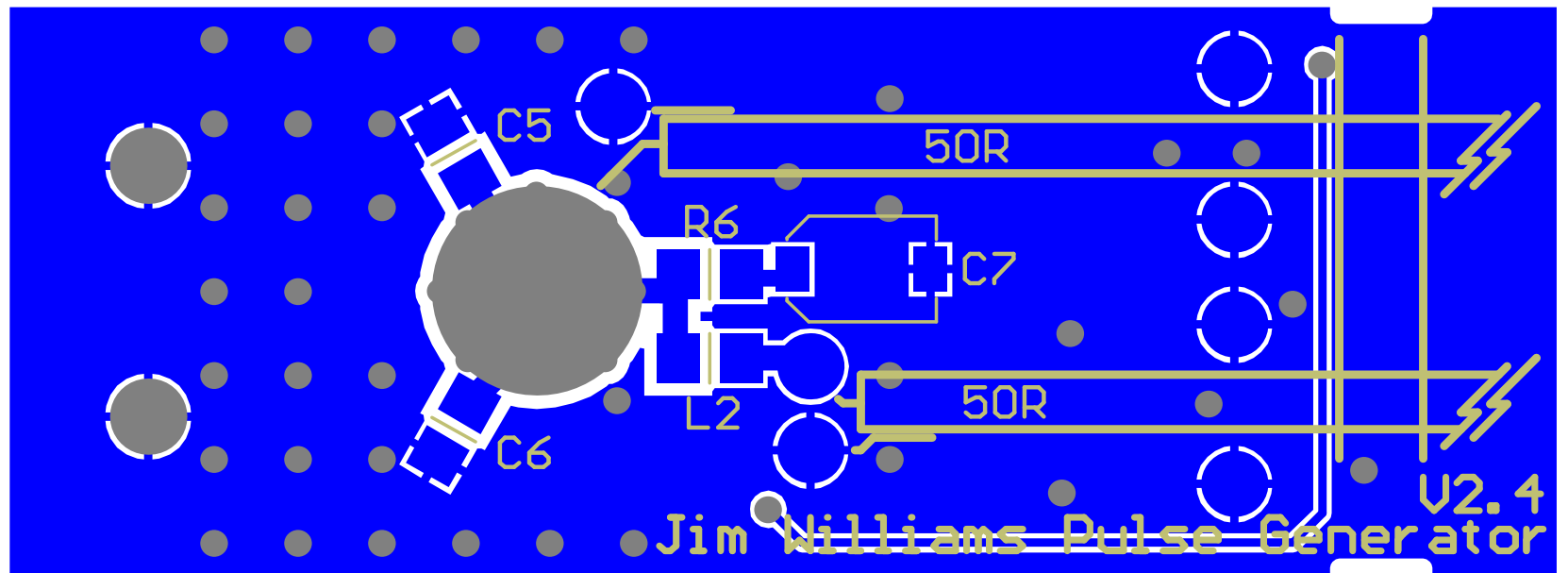


BNC-MOLEX-0731000105\_TERMINATED

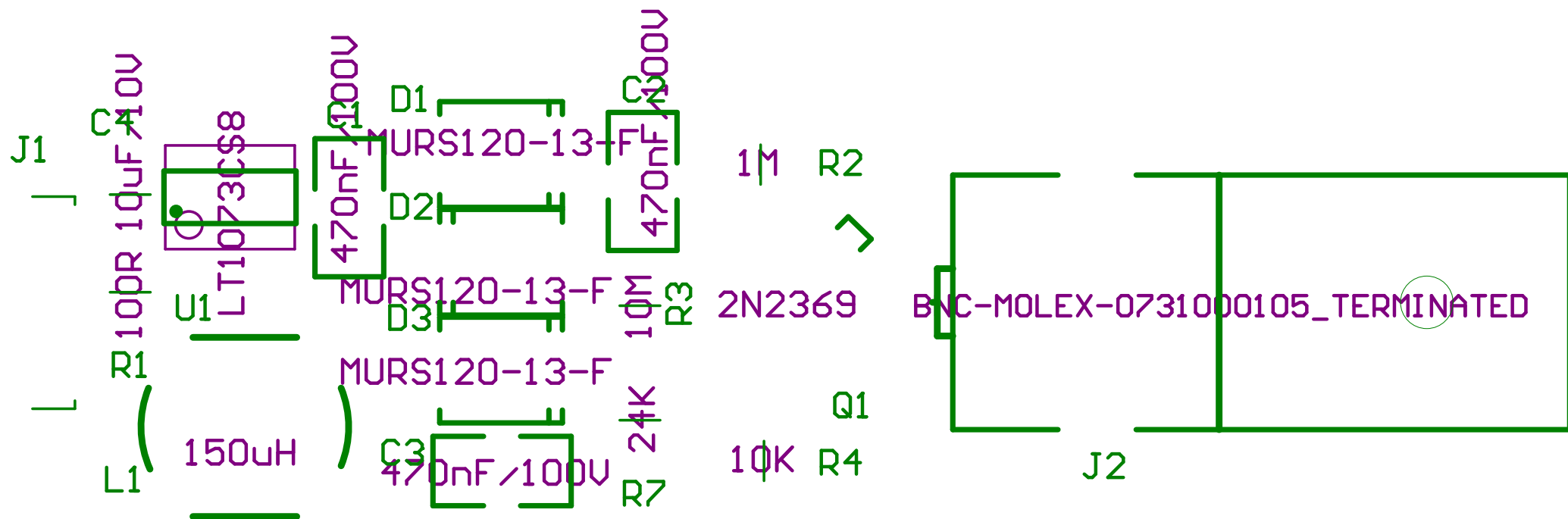
R5 is mounted between BNC centre and ground plane

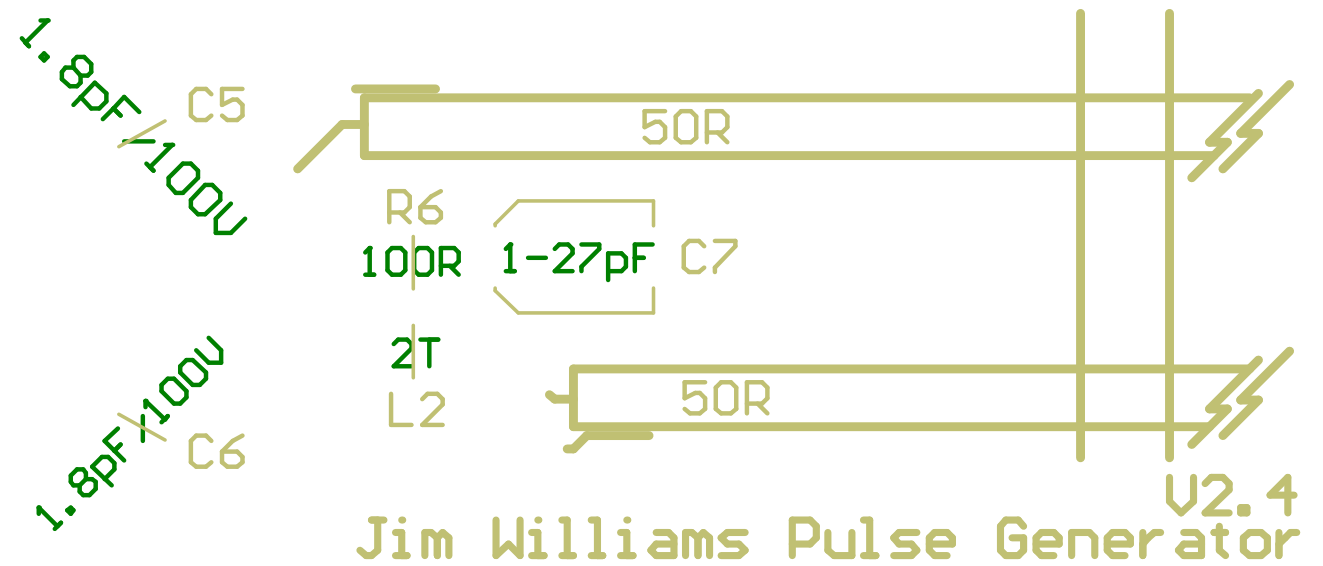
Title Jim Williams Pulse Generator		
Size A4	Number	Revision V2.4
Date: 2/03/2017	Sheet of	
File: C:\Users\...\Pulser.SchDoc	Drawn By:	





USB\_MICRO\_B\_CONNECTOR





## Bill of Materials For Project [Pulser.PrjPCB] (No PCB Document Selected)

Digikey	Designator	Description	Quantity
	C1, C2, C3	Capacitor	3
	C4	Capacitor SMT 0805	1
	C5, C6	Capacitor	2
	C7	Trimmer Capacitor muRata TZC3 series	1
	Con1		1
	D1, D2, D3	Fast / Ultrafast Diode, 200 V, 1 A	3
WM5524-ND	J1	USB Micro-B Connector	1
	J2	BNC Connector	1
	L1	Inductor - SMT 3mm	1
	L2	Resistor	1
	Q1	High Speed Switching Transistor	1
	R1, R6	Resistor	2
	R2	Resistor	1
	R3	Resistor	1
	R4	Resistor	1
	R5	Resistor	1
	R7	Resistor	1
	U1	Micropower DC/DC Converter (Adjustable, 212mV reference)	1
			24