

# Lightning Detector Tuning Capacitor Data

Factory Values								After Mods					
Make		C1	C2	C Total	Tune C#	Tune Cap	Frequency	C1	C2	C Total	Tune C#	Tune Cap	Frequency
CJMCU	1	32pF	?	?				470pF	470pF	940pF	06	48pF	499,200
CJMCU	2	98pF	1030pF	0	0	0 pF	498,600	470pF	470pF	940pF	06	48pF	499,520
SparkFun	64	989pF	0	989pF	2	16pF	500,031 **	960pF	0	960pF	0A	80pF	500,093
SparkFun	88	989pF	0	989pF	3	24pF	499,550	970pF	0	970pF	3	24pF	499,500

## Other test

SparkFun	88	910pF	0	910pF	E	120pF	499,563 *
SparkFun	88	975pF	0	975pF	4	32pF	499,580 *
SparkFun	89	975pF	0	975pF	5	40pF	500,343 After one day

Notes:

I did notice that after removing a test capacitor, and rechecking the value, it was different than the off-the-shelf value.  
After the cleaning fluid evaporates the frequency changes

\*\* Unsoldered cap, checked value at room temperature resoldered cap.

\* Frequency changes cause by solder flux or cleaning fluid contamination and or cooing down after soldering.

## Tuning Capacitor Values

HEX	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
Pf	0	8	16	24	32	40	48	56	64	72	80	88	96	104	113	120

