

BBMPulser 5S (2.4 Tesla with power control) Parts list 12.2021

Circuit here <https://bbmpulser.org/wp-content/uploads/2021/06/2.9-Tesla-29000-Gauss-Automatic-Magnetic-Pulser-BBMPulser-5S.-rev-1.0.jpg>

## Resistors

**Main Resistor**, Needs to be 25-35 Ohms and 300Watts. I make it using 33AWG resistive wire around 8ft, double it, twist them together and wrap it around ceramic tile, attach wires on both ends and attach support for the tile (resistor)

Here is video I show how it looks <https://youtu.be/tKtLriupSVo>

R1, R2, R3 – 1M 2Watts

R4 – 1.6k ¼W

R5 – 9k ¼W

R6 – 249 ¼W

R7 – 1.6k ¼W

R8 – 3.9k ¼W

R9 – 10k ¼W

R10 – 3.4k ¼W

R11 – 27.4 ¼W

R12 – 1.6k ¼W

R13 – 82k ¼W

R14 – 75k ¼W

R15 – 250k ¼W

R16 – 100 ¼W

R17 – 10k adjustable (variable) ¼W

R18 – 43k 1/4W

R19 – 61k ¼W

R20 – 100k 1/4W

R21 – 75k ¼W

R22 – 62k ¼W

R23 - 10k adjustable (variable) ¼W

## Capacitors

C1 - 100nF 16V

C2 – 220uF 16V

C3 – 33nF 16V

C4-C8 120uF 450V Aluminum

C9 – 4.7uF 16V

C10 – 4.7uF 16V

C11 – 100nF 250V

Capacitor Bank consist of 2x 3,300uF 500V Aluminum Capacitors

## Zeners

13VDC ¼W

30VDC ¼W

## Relays

SRD-12VDC-SL-C Blue Relay with 25mA current draw.

## Fuse

3A 250V

## Switches

Power ON/Off Switch - Latchable 2 position 3A-10A 250V

Remote Program Switch – Momentary 1A-5A small Switch (push button type) Normally Open

Pulse Switch – low power momentary Normally Open Switch

Power Switch – 4 Position Switch – Low Power Rotary Switch Potentiometer 2 poles 3 Way 0.1A  
RS1010 – Ebay.com

### **Chip**

NE555N - Classic timer chip

### **Transistors**

Q1(npn type) BC337

Q2(pnp type) BC327

### **Thyristor**

America Semiconductor 50RIA100 SCR

### **Triac**

TO92 size Z00607MA

### **Diac**

DB3 (small component)

### **Optocoupler**

PC817

**1 Channel 12VDC RF Receiver** with remote – Ebay.com

**AC Fan** 120mm Exast fan

**7 Segment RED LED Display** Common Anode

**2x 50C Normally Closed resettable thermal Switches** (metal or ceramic body)

**AC DC Power Supply** - 12VDC 0.5-3A Power Supply

**Coil** is made of 14AWG Copper Magnet Wire.

ID 1", OD 3", 5/8" thick, Air core (empty)

Coil must me winded tight, also Flex it 90 resent needs to be used in-between the layers alone with cloth tape to make coil quite and expend its life.

Have questions please email [Info@bbmpulser.org](mailto:Info@bbmpulser.org)

your tech  
Andrey D