

General Notes

Changes From Rev 1.0

Changed values of C10, C15, R10, R40

Resistors

Unless otherwise specified, resistors are thin film (metal film), 1/10W or 1/16W, 5% (or better), size 0805

Unless otherwise specified, actual value used may be a standard 5% or 1% value within 10% of value shown

1/4W resistors are size 1206

Capacitors

Unless otherwise specified, capacitors are X7R ceramic 16V (or higher), 20% (or better), size 0805

10uF and 22uF capacitors may be X5R ceramic or low-ESR tantalum 16V (or higher), 20%, size B/3528/3216/1210/1206

68uF capacitors are tantalum 25V (or higher), 20%, size C/D/6032/7343

Ferrite Beads

Ferrite beads are Murata BLM31PG121SN1L 120 Ohm 3000 mA size 1206 or equivalent

Diodes

All diodes except avalanche diodes are case size SOD-323

Avalanche diodes are silicon TVS 400W DO-214AC (Littelfuse SMAJ series or equivalent)

Circuit Board

The circuit board for this design is labeled "Magnet Main v1.0" with date 6/6/09

The following components are mounted on the back side of the board:

J1; PTC101-PTC102; U101-U105

CSO Electronics Caltech

Dual Magnet Main Board

F. Rice

Rev 1.1

8/10/11

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