

A VHF/HF Aerial Analyser

Jim Tregellas VK5JST

VHF AERIAL ANALYSER PARTS LIST

Resistors (all 0.25W 5% unless otherwise specified)

1@ 15R
1@ 18R
1@ 22R
1@ 39R
1@ 68R
4@ 100R SM type 1206
2@ 100R
1@ 150R
3@ 180R
4@ 1K
1@ 1K2
1@ 1K5
1@ 1K8
1@ 2K2
1@ 3K3
3@ 4K7
1@ 5K6
8@ 8K2
1@ 10K
3@ 22K
1@ 33K
4@ 47K
1@ 56K
1@ 68K
1@ 82K
1@ 100K
1@ 150K
3@ 220K
1@ 330K
4@ 1M

Trimpots

5@ 20K Jaycar type RT4652 or equiv.
1@ 10K Jaycar type RT4360 or equiv.

Capacitors

3@ 15pF NPO 50V disc ceramic
1@ 22pF NPO 50V disc ceramic
3@ 68pF 50V disc ceramic
1@ 100pF 50V multiplate monolithic 0.2 inch lead spacing
2@ 1nF 50V multiplate monolithic 0.2 inch lead spacing
5@ 10nF 50V multiplate monolithic 0.2 inch lead spacing
16@ 100nF 50V multiplate monolithic 0.2 inch lead spacing
2@ 22uF 25V pcb mtg aluminium electrolytic
1@ 100uF 25V pcb mtg aluminium electrolytic
1@ tuning capacitor with knob (Jaycar part no. RV5728)

Inductors

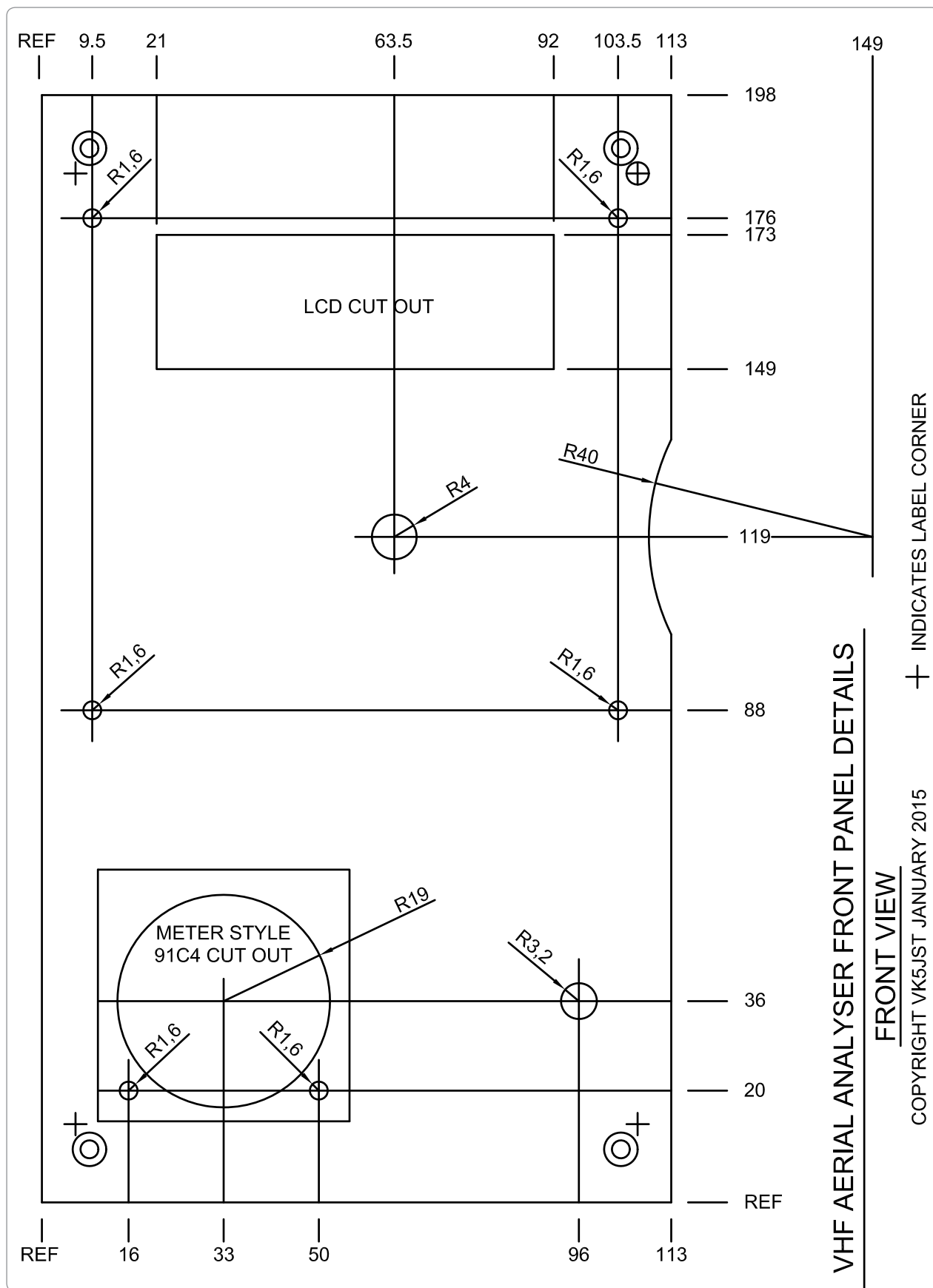
1@ 270nH RFC
1@ 820nH RFC
1@ 3.3uH RFC
1@ 15uH RFC
1@ 33uH RFC
1@ 47uH RFC

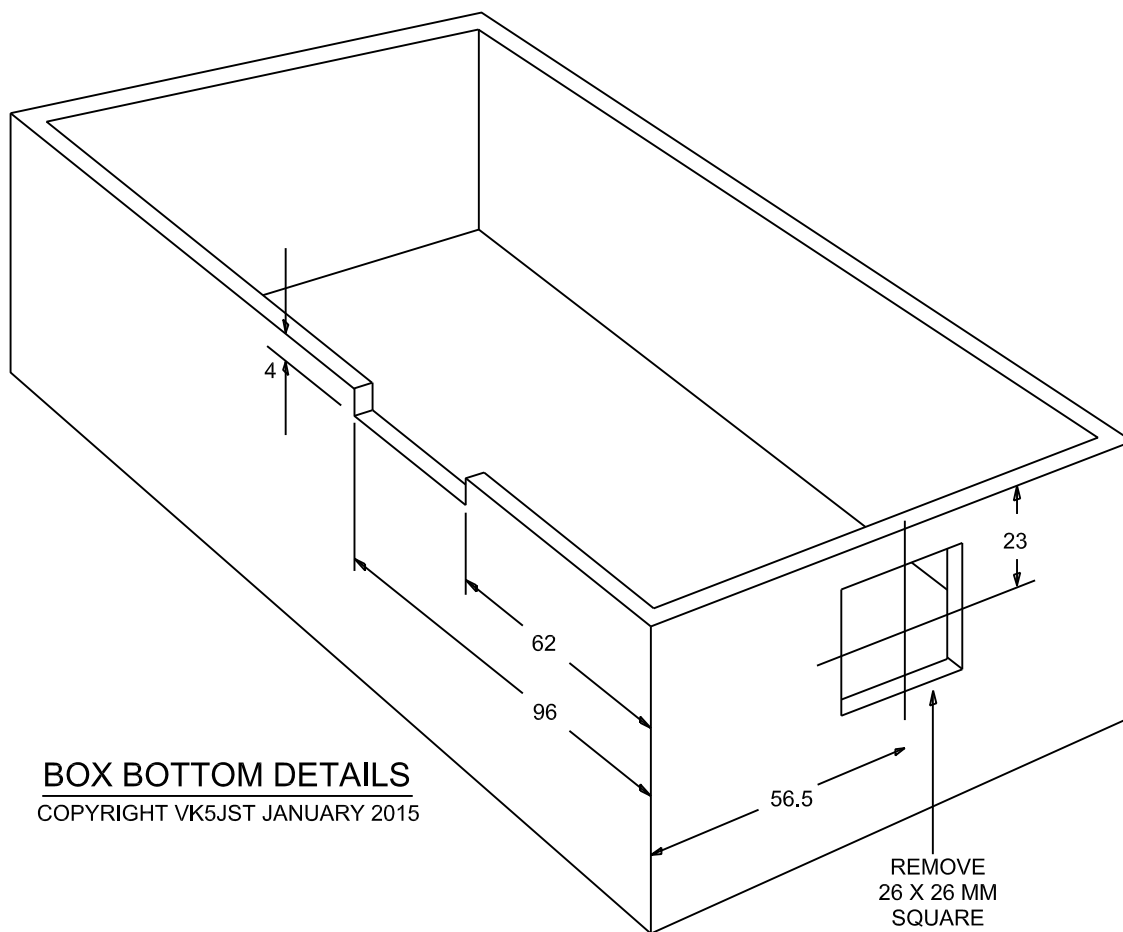
Semiconductors and Sockets

6@ 1N5711 Schottky diodes
1@ 1N4004 or equiv.
3@ J310 (2 used in matched pair-TR1/TR2)
1@ BFR96
3@ PN2222
4@ 2N3906
1@ LM358
2@ TLC2272CP
1@ 74LS00
1@ 74HC393
1@ MC12080
1@ PICAXE 28X2
1@ 7805
1@ 7808
4@ 14 pin DIL sockets (use 2 for 28 pin Picaxe)
3@ 8 pin DIL sockets

Miscellaneous

- 1@ type N panel mounting rf socket (rfsupplier.com part no. N01-FJHL4-41BS03 or equiv.)
- 8@ countersunk plated 3mm screws 6mm long
- 4@ cheesehead plated 3mm screws 30mm long
- 16@ 3mm plated nuts
- 2@ 12mm long tapped nylon spacers (Jaycar part no. HP0924 or equiv.)
- 1@ SPDT switch C&K 7101 or equiv.
- 1@ type 91C4 panel meter for 5VDC FSD
- 1@ 16 character X 2 line LCD with HD44780 or equivalent chipset
- 1@ 6 position 2 pole rotary switch (Jaycar part no. SR1212 or equiv.)
- 6@ 1mm dia. PC pins
- 1@ knob for 0.25 inch dia. shaft
- 1@ UB2 box
- 1@ 10 cell AA battery holder (Jaycar part no. PH9210 or equiv.)
- 3@ printed circuit boards
- 1@ 3 pin 0.1 inch spaced header strip
- 1@ 16MHz HC49U crystal
- Hookup wire, solder, 0.8mm dia. Cu wire, 1.2mm dia. Cu wire





BOX BOTTOM DETAILS
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