

Appendix B

Printed Circuit Board Artwork

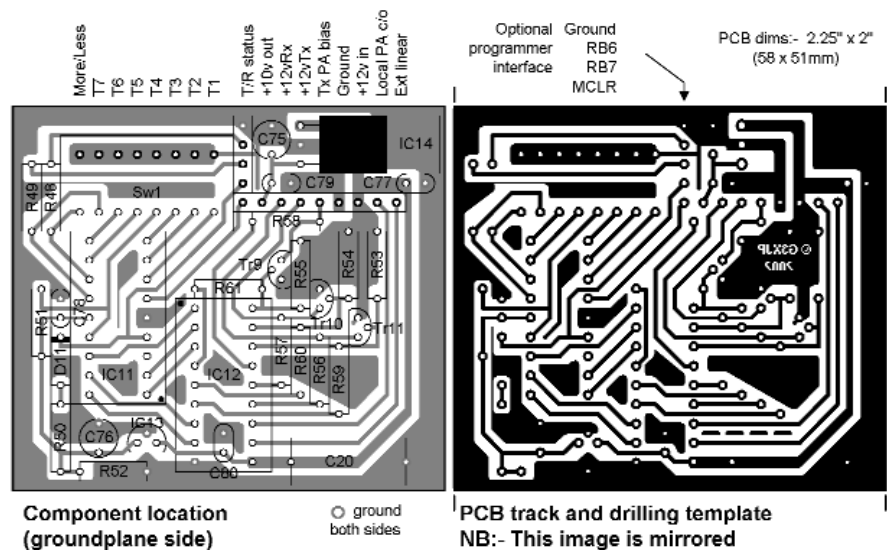


Fig 8.8: Timer board PCB - with the component side unetched. Countersink the ungrounded holes on the component side. The input/output connector (if any) is not specified, but is 0.1in pitch. The author used SIL plug/socket strip for this and all arbitrary connectors

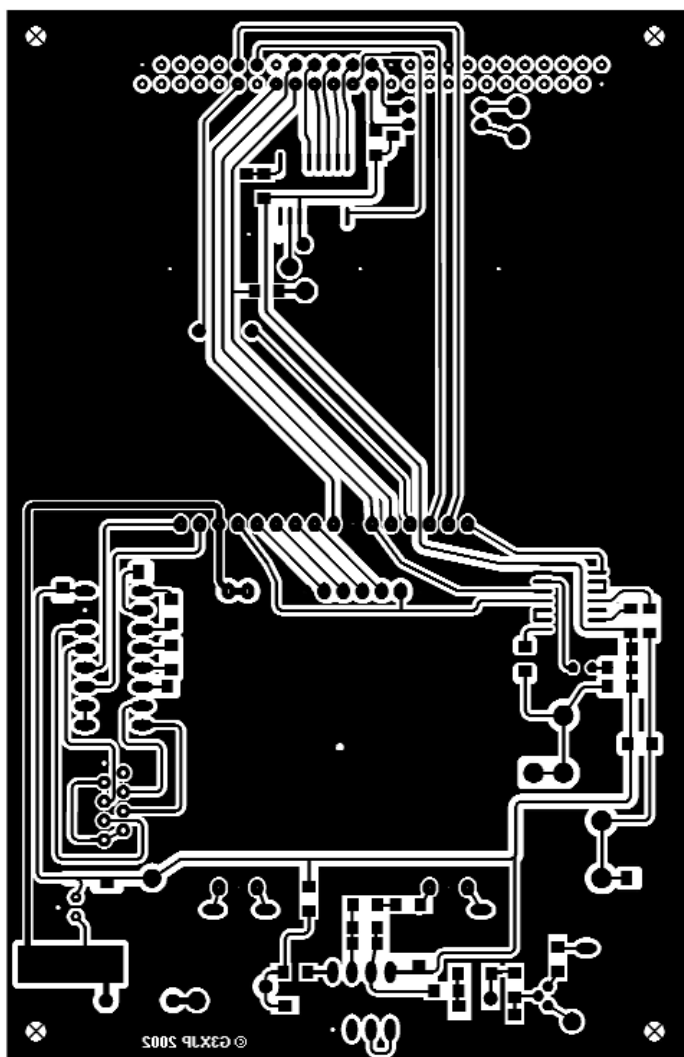
IMPORTANT NOTICE

Whilst every effort has been made to ensure that the artwork in this appendix is displayed accurately, it is the responsibility of the reader to check that he/she is using the correct drawing, that it is accurate and the correct size (some may need re-scaling on a photocopier) and whether the artwork is 'mirror image'. It is important to read the associated text in the relevant chapter.

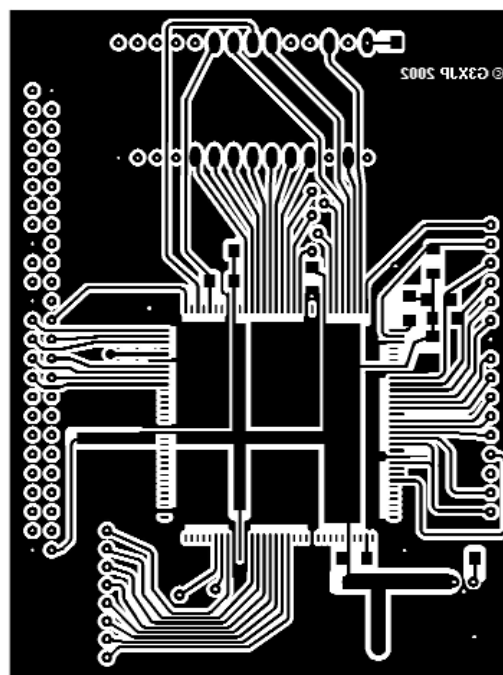
The RSGB cannot be held responsible for any errors or consequential losses incurred by the use of this artwork.

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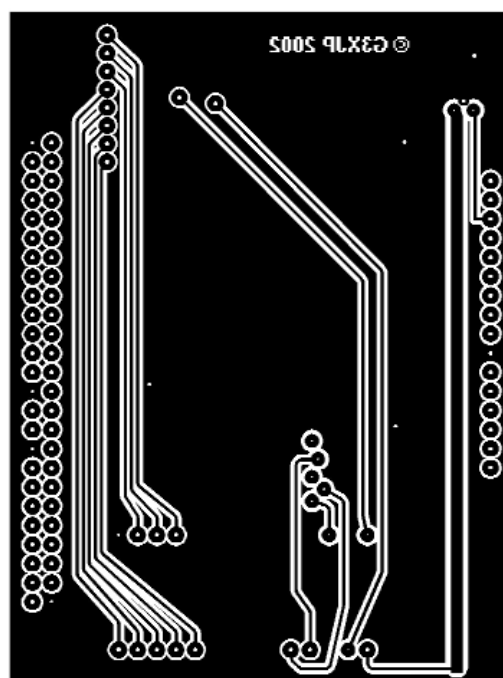
(a) Mother board 90 x 139.7mm



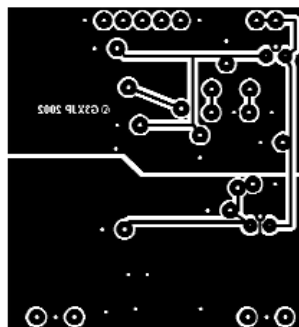
(b) Processor board, TOP 88.9 x 66.4mm



(c) Processor board, REAR



(d) CODEC board, REAR 39 x 43mm



(e) CODEC board, TOP

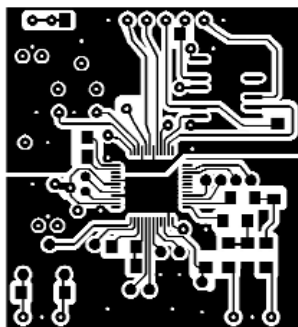


Fig 8.20: DSP boards PCB artwork. NB all these images are mirrored for direct copying to laser film. Should you wish to use an indelible pen to apply the artwork to the back of the daughter boards, the image needs to be flipped (or simply viewed in a mirror). All holes are 0.7mm

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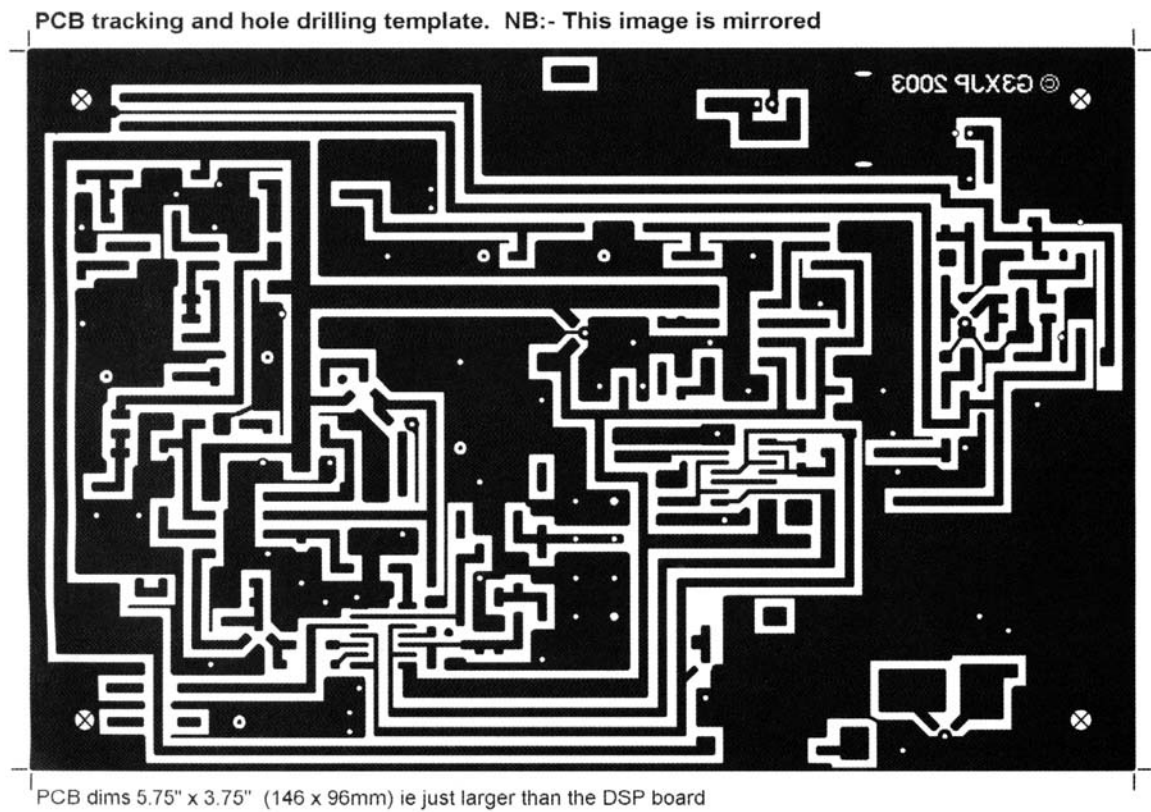


Fig 8.24(b): The IF board

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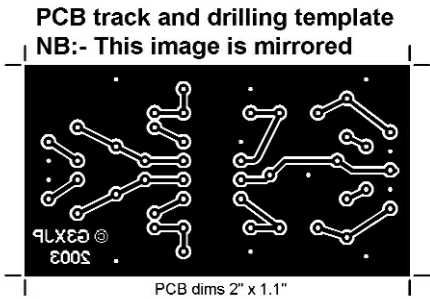


Fig 8.35: Stereo amplifier PCB track and drilling template. NB: This image is reversed

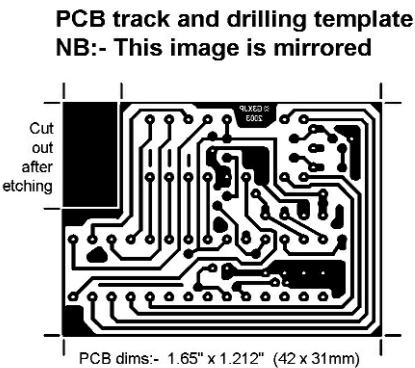


Fig 8.37: PicAdapter board PCB track and drilling template. NB: This image is reversed

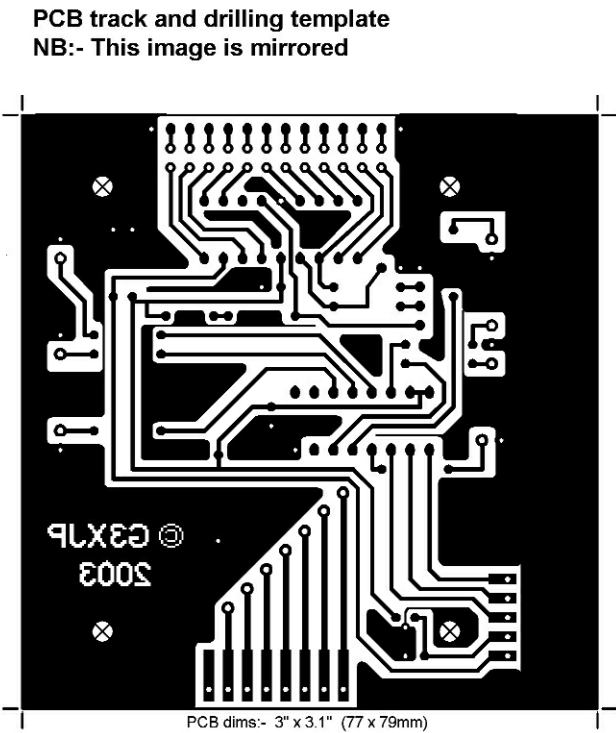


Fig 8.39: Status Board PCB track and drilling template. NB: This image is reversed

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PCB track and drilling template

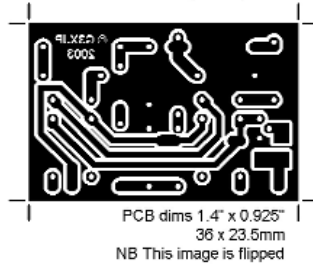


Fig 8.41(b): Injection filter PCB track and drilling template

PCB tracking

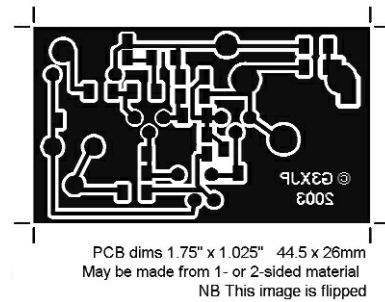


Fig 8.43(b): Reference oscillator PCB

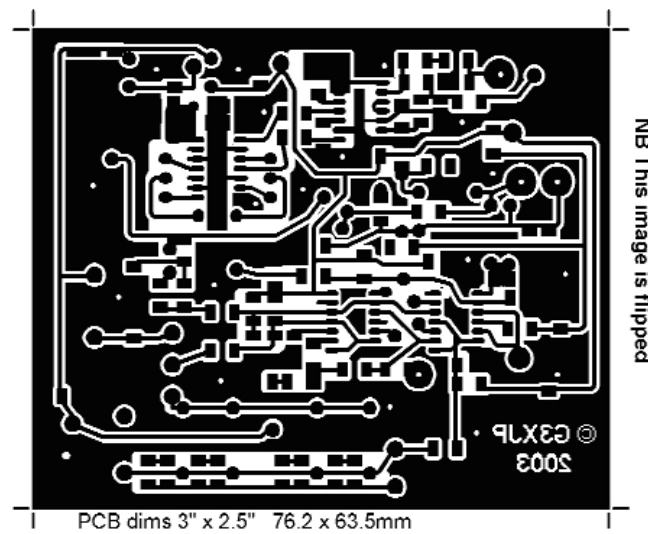
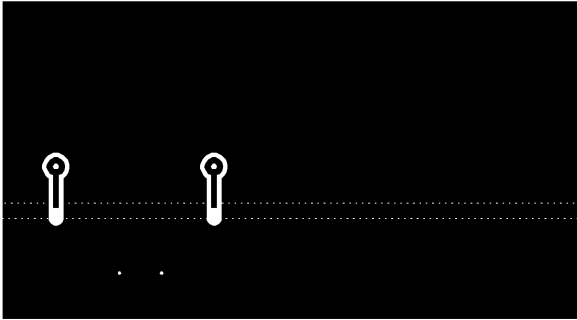


Fig 8.55: 'Magic Roundabout' PCB artwork

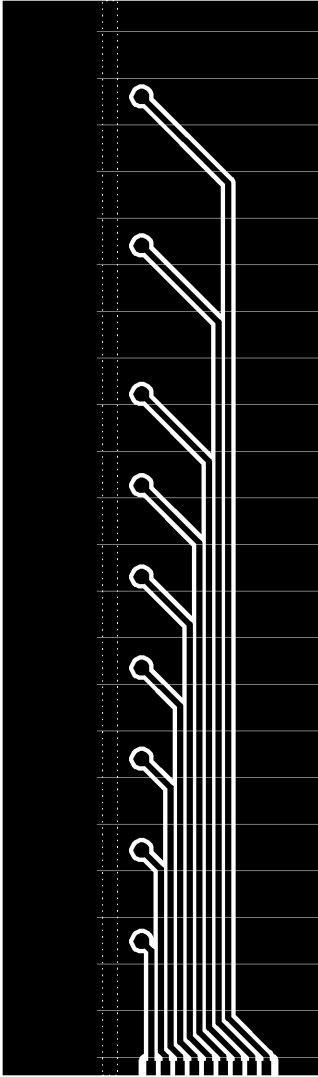
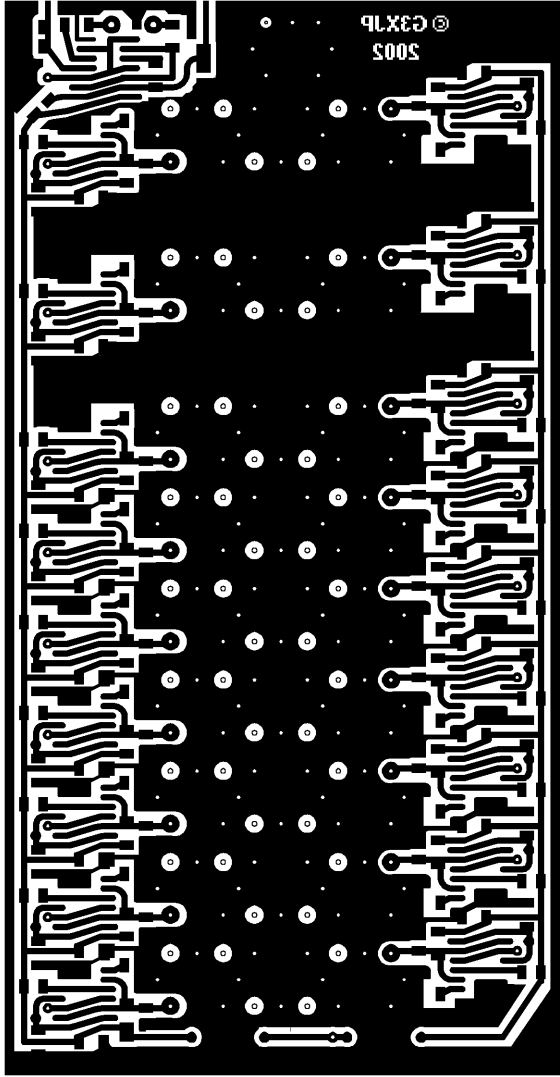
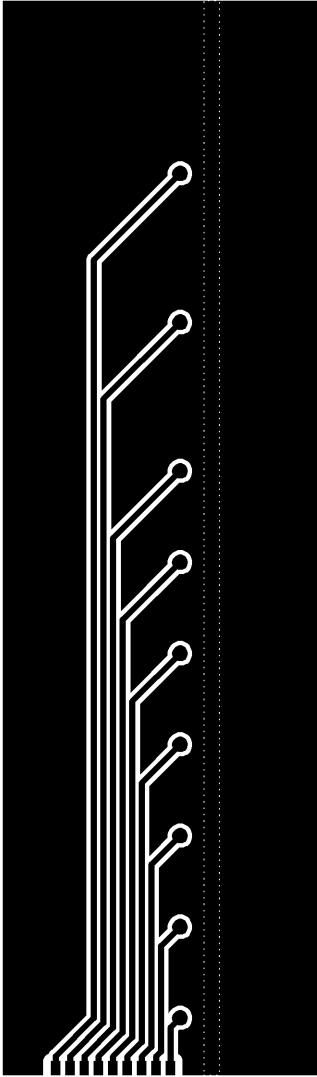
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Fig 8.61: Band-pass filters.
PCB layout for nine filter
blocks

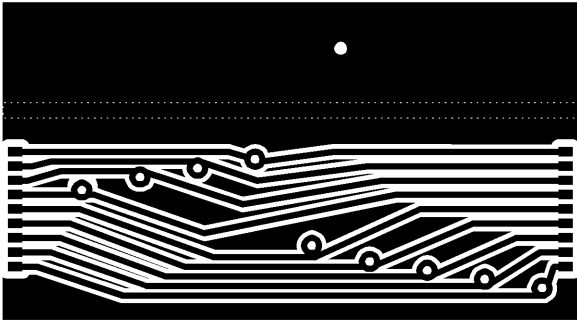


PCB dims:-
Filter board 2.90" x 5.60"
Side plates 1.65" x 5.60"
End plates 3.00" x 1.65"
Complete assembly:-
3" x 1.65" x 5.757"
assuming 2mm thick PCB

NB This image is mirrored



Drill these
holes for tight
fit on 1206
resistors



Drill several holes (not
shown) through each side-
and end-plate - and intimately
connect the inner and outer
grounded faces.