

## G-QRP Club components

Cost

### This is a service for G-QRP Club members only

6 pole <b>crystal filter</b> SSB 9MHz 2.2kHz 500 Ohm in/out	£12
<b>Polyvaricon capacitors</b> – 2 gang - 8 to 140pF & 6 to 60pF (tags marked A & O respectively)	£1.75 each
2 gang - 8 to 285pF per section	£1.75 each
c/w shaft ext'n & mounting screws. Long & short fixing screws are supplied for different panels	
<b>All the above, plus postage - any quantity – £3.50p (UK), £3.50 (Eu), £4.50 (DX)</b>	
(these postage prices are correct! Royal Mail charge by thickness on UK mail)	

### Crystals HC49/U wire ended

QRP CW calling frequencies

1.836, 3.560\*, 7.015, 7.028, 7.030\*, 7.040, 7.0475, 7.122, 10.106, 10.116\*MHz £2.00 each

14.060\*, 18.086, 21.060, 24.906, 28.060MHz (\* = also available in low profile) £2.00 each

N.B. the 24.906MHz crystals only are 3<sup>rd</sup> overtone, I also stock 28.060MHz as 3<sup>rd</sup> overtone.

Other frequencies (some of these are low profile HC49)

1.8432, 3.500, 5.262, 7.00, 10.006, 10.111, 11.50, 14.00, 22.00, 29.00MHz £0.50 each

(5.262MHz is the QRP calling frequency on 60m )

2.00, 3.00, 3.200, 3.5795, 3.5820, 3.6864, 4.00, 4.096, 4.1943, 4.433MHz )

4.50, 5.00, 6.00, 7.20, 7.60, 8.00, 9.00, 10.00, 11.00, 12.00, 13.50, 15.00, 16.00MHz ) £0.35 each

18.00, 20.00, 24.00, 25.00, 26.00, 28.00, 28.224, 30.00, 32.00, 33.0MHz )

Pair of carrier crystals 9MHz ± 1.5kHz HC49U wires £4 pair

Pack of 10 off 10.006MHz crystals (see Sprat 147) £5 per pack

### Ceramic resonators

455kHz, 480kHz, 2.00MHz, 3.58MHz, 3.69MHz, 4.00MHz, 7.37MHz, 14.32MHz, 20.0MHz £0.50 each

### ICs

SA602N (I may supply SA, NE, 602 or 612. All are electrically identical) £1.50

MC1350 (Stocks are now getting low – max of 2 per order please) £2.00

LM386N-1 300mW 8pin DIL 4 to 15V £0.45

LM386M-1 300mW 8pin **SMD** 4 to 15V £0.35

TDA7052A 1W 8pin DIL 4.5 to 18V low noise DC volume control £0.60

TA7642 TRF radio chip (I may supply the alternative MK484 which is the equivalent) £0.75

CA741 op-amps 8pin DIL 5 for £1.00

TDA2003 audio amp – around 10Watts @ 12 volts (circuit in Sprat 161) £0.25

TDA2822M audio amp 1.8 to 5V. Stereo can be bridged – data sheet on [gqrp.com/tda2822.pdf](http://gqrp.com/tda2822.pdf) £0.20

(we couldn't tame it in bridge mode with much over 5 volts – so be warned! – see Sprat 173)

### Transistors, FETs

IRF510 50p

2SC536 npn – fT – 100MHz, hFE – 320, VCEO +40V 5 for 50p

2N3904 npn – general purpose fT – 300MHz, hFE – 150, VCEO +40V 10 for 50p

2N3906 pnp – general purpose fT – 250MHz, hFE – 150, VCEO -40V 10 for 50p

MPSH10 npn - TO-92 – fT = 650MHz, hFE – 60, VCEO +25V 10 for 80p

2N3819 N channel JFET TO92 24p each

2N7000 N channel MOSFETs TO92 10p each

BC517 npn Darlington pair 10 for £1.10

BS170 N channel MOSFET TO92 10 for 80p

BF981 N channel dual gate MOSFET 40p each

### Diodes

1N4148 - General purpose silicon diodes 10 for 10p

1N5711 – Schottky signal diode low forward volts up to VHF/UHF 20p each

MVAM109 – Varicap diode 40pF @ 9V, 500pF @ 1V (max of 2 per order) 50p each

**All the above components & coils, plus postage - any quantity – £1.20p (UK), £3.50 (Eu), £4.50 (DX). If you are ordering filters, polyvaricons, then that postage will also cover components and/or toroids.**

**Last updated – 4 March 2018**

## This is a service for G-QRP Club members only

**Back issues of Sprat** (please check availability first) 50p each plus postage. One – 70p(UK), £2.20(Eu), £3.30(DX): more – add 60p(UK),£1.20(Eu), £1.50(DX) per copy for up to 5 copies. Any more? ask for a quote.

## Coils, toroids and magnet wire

0.6uH – Spectrum 0u6H (No direct TOKO equivalent)	80p each
1.2uH – Spectrum 1u2H (TOKO 3335 equivalent)	80p each
1.7uH – Spectrum 1u7H (TOKO 4612 equivalent)	80p each
2.6uH – Spectrum 2u6L (TOKO 1509 equivalent)	80p each
5.3uH – Spectrum 5u3L (No direct TOKO equivalent)	80p each
11.0uH – Spectrum 11u0L (No direct TOKO equivalent)	80p each
45.0uH – Spectrum 45u0L (TOKO 3333 equivalent)	80p each
90.0uH – Spectrum 90u0L (No direct TOKO equivalent)	80p each
125.0uH – Spectrum 125u0L (No direct TOKO equivalent)	80p each

The full club data sheet for these coils is available as a PDF on the Technical Page

## G-QRP Club toroids

**Toroid cores** – priced per pack of 5 (except the large ones) – max of 2 packs of each per member

### Iron Dust

T25-2 - £0.50; T25-6 - £0.60; T30-2 - £0.70; T30-6 - £0.80  
T37-2 - £0.80; T37-6 - £0.80; T37-7 - £1.00  
T50-1 - £1.00; T50-2 - £0.90; T50-6 - £1.10; T50-7 - £1.20; T50-10 - £1.20  
T68-2 - £1.80; T68-6 - £2.40;  
T130-6 - £2.40 each (T130 are heavy –Each counts as 2 packs for postage – see below)

### Ferrite

FT37-43 - £0.90; FT37-61 - £1.20  
FT50-43 - £1.20; FT50-61 - £2.40  
BN43-2402 - £1.20; BN43-202 - £2.00; BN43-302 - £2.00  
BN61-202 - £2.40  
FT43-101 Ferrite beads (3.5mm dia x 3.2mm long, 1.2mm dia hole) £0.40

If you order 2 packs of 5, you will usually get all 10 in 1 pack.

**All toroids are plus postage – up to 10 packs are £1.20p (UK), £3.50 (Eu), £4.50 (DX)**

**Each additional 10 packs, add 50% of the same postage etc. If you want more than a total of 2 of the large (130) toroids, please ask for a quote for postage. If you are ordering components as well, then this toroids postage will also cover components (except filters or polyvaricons)**

**Magnet wire** – This is solderable enamel insulated. Max of 1 pack from each price group per member. **Price per pack**

18 SWG - pack of 2 metres, 20 or 22 SWG - pack of 3 metres	60p
24, 25 or 27 SWG - pack of 4 metres	40p
30, 33, or 35 SWG - pack of 5 metres	30p

**Bifilar wire** – solderable enamel insulated, a red and a green wire bonded together. (see next page)

21 SWG (0.8mm diameter) – pack of 2 metres	£1.00
26 SWG (0.45mm diameter) – pack of 3 metres	70p

Please solder all these magnet wires in a well ventilated place – do not inhale the fumes!

**Litz wire** – silk covered multi strand wire with solderable enamel (see next page)

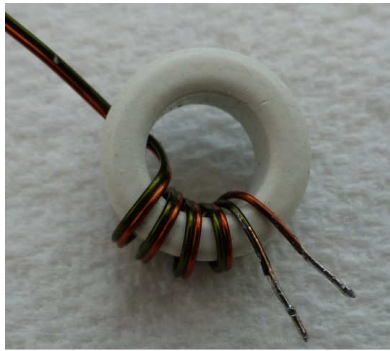
7/.04mm – silk covered, 7 strands of .04mm enamelled wire – approx 36SWG – pack of 3 metres	12p
15/0.04mm – silk covered, 15 strands of .04mm enamelled wire – approx 34SWG – pack of 3 metres	25p

Last updated – 6 October 2016

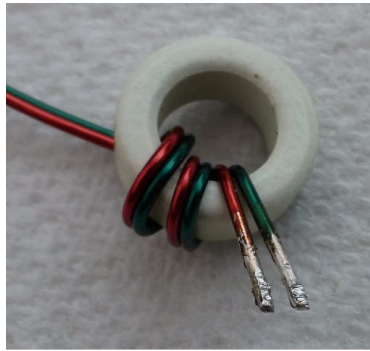
This is a service for G-QRP Club members only

**Bifilar wire:**

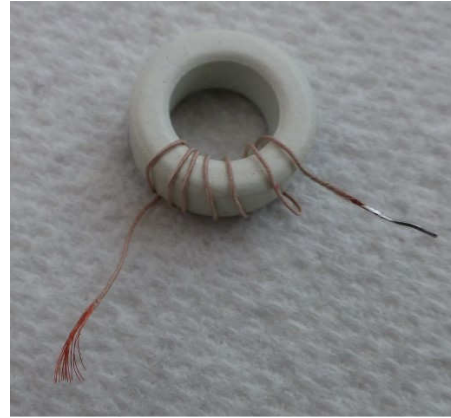
**26 SWG**



**21SWG**



**Litz wire: (this is the 15 strand wire, the 7 strand looks very similar)**



**Axial lead inductors (they look like fat  $\frac{1}{4}W$  resistors, and use the same colour code in  $\mu H$ !) These are low current – a few hundred mA for the lowest values, reducing to no more than 130mA for the highest.**

3.3, 4.7, 6.8 $\mu H$ , 10, 15, 18, 22 $\mu H$ , 33, 39 $\mu H$ , 47, 56 $\mu H$ , 100 $\mu H$ , 150 $\mu H$ , 220 $\mu H$  and 1000 $\mu H$

18p each

The full club data sheet for these inductors is available as a PDF on the Technical Page of the club website.

Postage for wire and inductors – free if part of an order for other parts, otherwise, postage as for components

Last updated: 18 May 2016

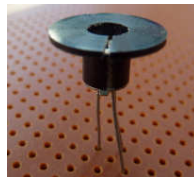
**Heatsinks – 3 types available:**



TO92 – 30p each



TO39/TO5 – 40p each



TO18/TO72 – 60p each

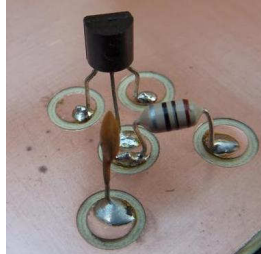
**Pad cutters - £6.00 each**

These are diamond-coated island pad cutters – slightly larger than the ones we had a number of years ago. 7mm o/s diameter and 5mm i/s diameter.

You must have a drill stand – a handheld drill will create lots of pretty (but useless) patterns!!

They have a 2mm diameter shaft. (all figures are approx.). They create a 5mm diameter pad with 1mm gap around it.

Here is a picture of one and a sample PCB creation:



Postage for the above items is the same as for components – or they can be added to a components order with no extra postage.

## QRPMe

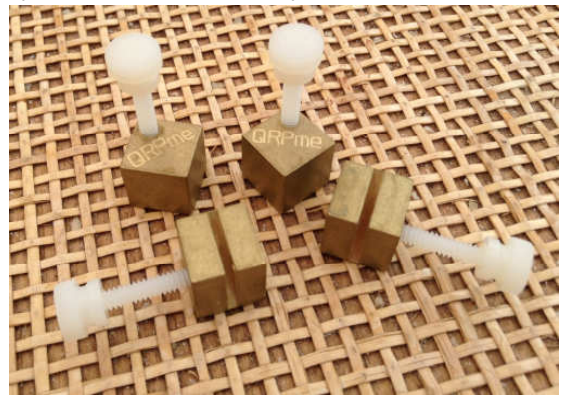
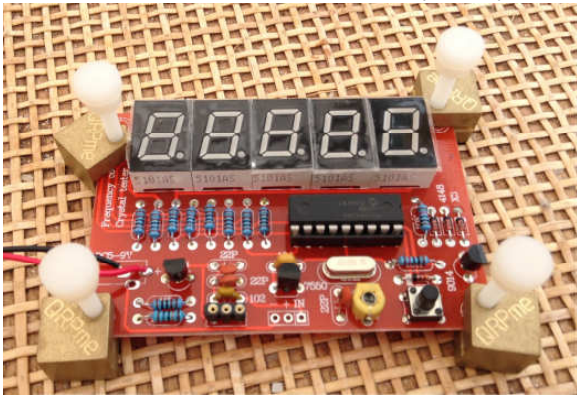
By arrangement with Rex at QRPMe, I can now supply some of his offerings to the UK and Europe only. DX orders please order direct from Rex

## SBSS clamps.

These are no longer available – sorry.

## Brass Set

The latest from Rex – here are a couple of pictures – a brass set comprises 4 blocks and 4 nylon screws:



Price is £10 per set, plus postage (UK - £1.50, Eu £2.50 DX please order direct from Rex)

## MePads & MeSquares

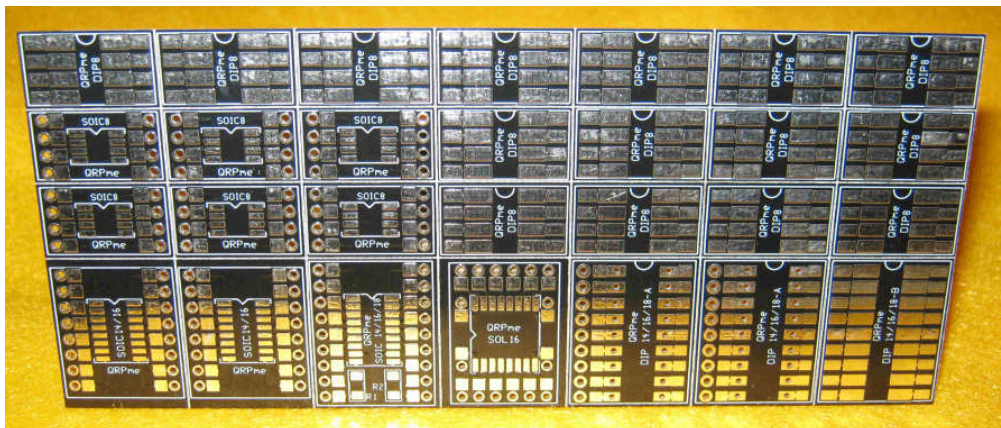
If you build “ugly”, or Manhattan style, then MePads, and MeSquares are for you.

They cost £6.50 each plus postage. (UK - £1.20, Eu - £3.00) DX – please order direct from Rex

This postage is ok for up to 4 boards

More info on Rex’s website - <http://qrpme.com/?p=product&id=MEP>

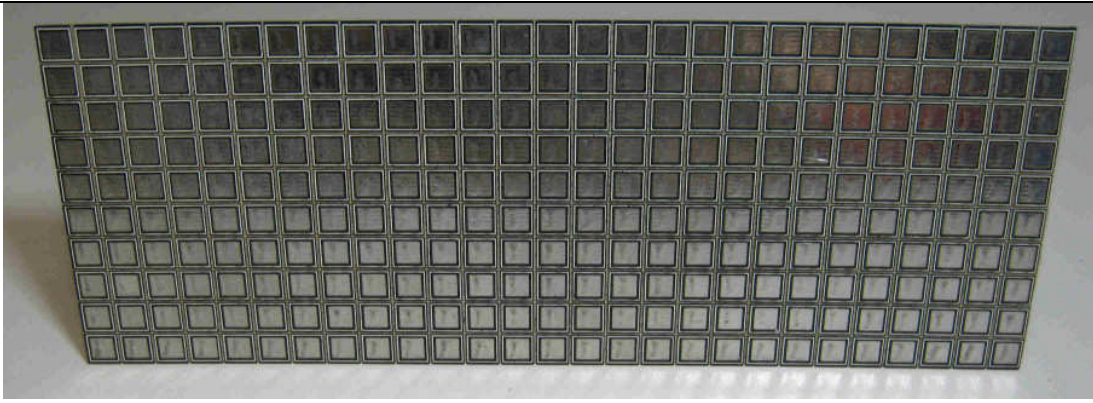
## MePads



The actual size of the MePad board is 5¼” x 2¼”. Each board has the following:

15 x DIP8; 3 x DIP14/16/18; 4 x SOIC8, 2 x SOIC14/16; 1 x SOIC 14/16/18; 1 x SOL16 – all to solder pads. These are routed on both sides so that you can easily split them apart and then glue to your board.

Updated 4 March 2018

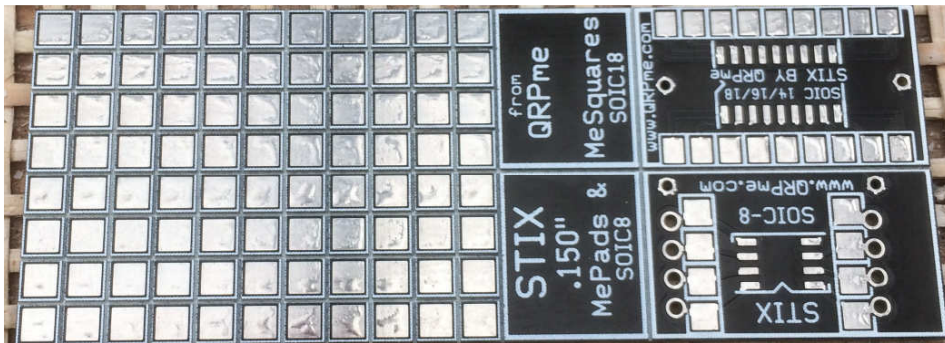


## MeSquares

The actual size is  $7\frac{1}{2}'' \times 2\frac{1}{2}''$ . The 300 squares are  $\frac{1}{4}''$  apart, and the board is routed on both sides so that the squares can be used in groups, or individually. Each square is surrounded by solder mask.

## STIX panels

A smaller version of the MeSquares, plus a couple of SOIC pads. These are approx.  $3.2'' \times 1.2''$  ( $8 \times 3$  cm). There are  $88 \times 0.15''$  squares, and like the panels above, each is surrounded by black solder mask. They are all routed on one side and so any number can be snapped off. The cost is £3.50 each, and postage is as for components. If anything else is ordered, then postage is free.



Updated 4 March 2018