

C.M. HOWES COMMUNICATIONS

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Meopham, Kent, DA13 0UT
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G4KQH



Add more punch to your signal with the AP3 Automatic Speech Processor, as featured in last month's Ham Radio Today — Kit £14.80, Assembled PCB £19.80.

XM1 CRYSTAL CALIBRATOR. O/Ps:— 1MHz, 100KHz, 25KHz & 10KHz, usable up to 70cm, features on-board voltage regulator (I/P 8 to 24VDC), and a pulsed ident facility to identify markers on crowded bands. Kit £15.60, Assembled PCB £19.60.

DcRx Single Band Direct Conversion Communications Receiver, versions for 20, 30 or 80 meters SSB & CW. Excellent for the beginner, or for portable use. Kit £13.95, Assembled £18.45.

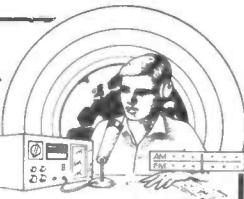
NEW! ST2 CW Practice Oscillator or side-tone unit for your TX. Kit £6.20, Assembled £8.90.

All the above are PCB modules and include all board mounted components, drilled fibre-glass PCB, and full instructions, we can supply cases etc. if you require — POA. Please add 60p P&P to your total order value. SAE for more details on any item.

We Also do **QSL CARDS**, prices from £6-70 for 200 inc. post.

BECOME A RADIO AMATEUR

Train now for the Radio Amateur Licence examination. No previous knowledge needed, only a few hours per week of home study for 3 to 6 months. Post coupon now for details or tel. 0734 51515 (24 hr service)



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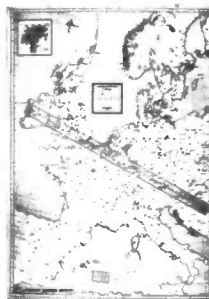
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HRT/10/846 BLOCK CAPS PLEASE

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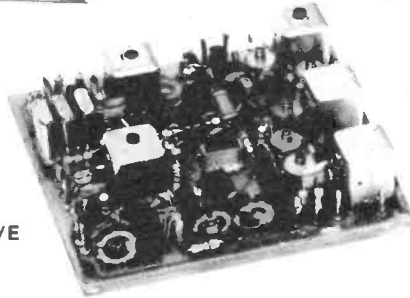
3. Beech Avenue, Eastcote, Ruislip, Middx. HA 4 8UG. Tel. 01 8664641



PRECISION LOCATORSET

With the accuracy of a computer program (tolerance less than .5%), this map and ruler cannot be compared with ordinary locator maps.

*Ruler can be fixed at QTH • Size 30 x 42 1/2 inches, scale 1:3 million • Printed in 4 colours on washable plastic • Metal top and bottom strips • Approved for contests • Full directions • Dispatched in sturdy cylinder. £9.90



PLL TRANSCEIVE V.F.O.

Converts any surplus radio telephone into a continuously variable F.M. transceiver. Microphone is connected to unit and a stable 2 metre F.M. signal is available for driving the amplifier stages. On receive the unit produces a local

oscillator signal 10.7MHz below signal frequency. • 600KHz repeater shift • Suitable for other I.F.'s • Extension for digital display • Kit includes all components (exc 3 Xtals and varco) • 8 pages of directions. £17.15 (directions only £0.95)

XTALS 46.56 MHz 46.36MHz 43.00MHz £11.50

C.W.O. All prices incl. VAT, p&p (within U.K.)

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The Advertising Standards Authority.
If an advertisement is wrong, we're here to put it right.

A.S.A. Ltd, Brook House, Torrington Place, London WC1E 7HN

STOCK CRYSTALS

CRYSTALS FOR 2 METRES
£1.96 FOR ONE CRYSTAL
TX CRYSTALS

HC6 U 4 & 8MHz 30PF
HC25 U 12MHz 30 & 40PF
HC25 U 18MHz 25 & 20PF

RX CRYSTALS

44MHz SERIES RES
44MHz SERIES RES
14.15MHz 20 & 30PF

£1.74 WHEN 2 OR MORE PURCHASED
CHANNELS IN STOCK

RO TO R7, S11, S20 TO S23
RO TO R7, S8, TO S23
RO TO R7, S8, TO S23

4 METRE CRYSTALS FOR 70.26 IN HC6/U AT £2.25 each
TX 9.78250 RX 29.78000 6.74666
70CM CRYSTALS £5.00/pr or £2.50 each
For Pye PF1 PF2 & PF70 series Also Wood & Douglas
SUBI433.2) R80 R82 R84 R86 R810 R811 R813 R814 R815
ALSO IN HC6 U 8.02222 and SU22 for W15U (113.5484 & 11.7458)
CONVERTER CRYSTALS IN HC18/U AT £2.85 each
22.000, 38.666, 70.000, 96.000, 116.000, 101.500, 116.000
FREQUENCY STANDARDS £2.75 each

IN HC13 100kHz
HC6 U 200kHz 1000kHz 3.50MHz 5.00MHz 10.00MHz 10.700MHz
HC18 U 1000kHz 7.00MHz 10.70MHz 48.00MHz 100.00MHz

TONEBURST I.F. & MPU CRYSTALS IN HC18 £2.25 EACH
1.68MHz (for 1750 HZ Tone) 10.245 (for 10.7 F.F.)
3.768 4.000 5.06888
YAESU CRYSTALS for FT101a FT901 & etc £4.00 each
Many available in stock (A list is available on request psc send S.A.E.)

A stamped addressed envelope with ALL enquiries please



QuartSlab

MARKETING LTD.

QUARTZ CRYSTALS

FUNDAMENTALS

FREQUENCY RANGE

6 TO 30kHz
30 TO 80kHz
80 TO 150kHz
160 TO 999kHz
1 TO 1.5MHz
1.5 TO 2.5MHz
2.5 TO 4.0MHz
4 TO 21MHz
21 TO 25MHz
25 TO 30MHz

MADE TO ORDER CRYSTALS

PRICE

£23.00
£15.00
£10.50
£7.00
£10.75
£5.00
£4.75
£4.55
£6.50
£8.50

OVERTONES

FREQUENCY RANGE

21.00 TO 65.00MHz
60.00 TO 110.00MHz
110.00 TO 125.00MHz
125.00 TO 150.00MHz
150.00 TO 250.00MHz
DELIVERY 2.0 TO 125.0MHz 2 TO 3 weeks
1.0 TO 2.5MHz 3 TO 4 weeks
Other frequencies 6 to 8 weeks

PRICE
£4.55
£5.10
£7.00
£8.00
£9.50

Unless otherwise requested fundamentals will be supplied for 30pf load capacitance and overtones for series resonant operation.

HOLDERS: PLEASE SPECIFY WHEN ORDERING — else HC25/U supplied for XTALS above 3MHz
HC13/U 6-200kHz HC6/U & HC33/U 170kHz-170MHz HC18/U & HC25/U 2-250MHz

DISCOUNTS: Price on application for 10+ units to same frequency/spec. or bulk purchases of mixed frequencies. We supply xtals for use in U.K. repeaters.

COMMERCIAL CRYSTALS: available on fast delivery and at competitive prices.

Please send for list stating interests

EMERGENCY SERVICE: for XTALS 1 to 125MHz. Add the surcharge for each XTAL Days refer to working days.

4 days + £12, 6 days + £7, 8 days + £5, 13 days + £3

CRYSTAL SOCKETS HC6 & HC25 £0.20 each. MINIMUM ORDER CHARGE £1.50

TERMS: Cash with order post Inc. to U.K. & Ireland. Cheques & P.O.'s to QSL LTD

ALL PRICES ARE EX VAT PLEASE ADD 15%

Telephone: 01-690 4889 24Hr Ansafone: Erith (03224) 30830

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