

★components

Resistors

1/4W 5% Carbon film
220Ω 1 XR2
560Ω 1 XR1
1kΩ 1 XR3

Capacitors

Ultra miniature disc ceramic
10nF 2 XC2,3
16V Electrolytic (radial)
32μF 1 XC1

Semiconductors

Transistors
BF246 1 XTr1

Integrated Circuits
4066 1 XIC1

Miscellaneous

Toko MFL45501L (1); transformer RMC41896; p.o.b.

DFM Discrepancies

When using the narrow filter with a receiver fitted with digital frequency readout, allowance must be made for the fact that the Toko filter's passband centres on 435.5kHz and not 455kHz.

In practice this means that although the meter will read correctly for lower sideband, 1.5kHz must be added to the readout when tuning u.s.b. or a.m.

Operating

When switching between narrow and wide positions it will be noticed that there is a slight drop in the signal meter reading on the 2.1kHz position. This is perfectly normal as is the slightly "middyish" sound. This latter effect is because of the restricted audio bandwidth which removes the lower and upper audio frequency range of the transmitted signal. In practice any signal that is readable in the wide position should also be clear in the narrow one. When tuning through crowded bands, broadcast or amateur, always try the narrow position as well as the wide. In the author's experience some weaker stations which are often masked by the stronger ones, will suddenly appear whereas with the 6kHz filter it was not possible to tune them in at all.

CONTINUED NEXT MONTH

Swap Spot

Have now and unused grid dip meter, 100kHz-100MHz signal generator and Minox Hi-Matic F 35mm camera. Would exchange for a linear amplifier above 30W with pre-amp and mobile mounting bracket for an FT-290R. K.B. Haynes, 15 Alderley Terrace, Dukinfield, Cheshire. V689

Have Philips video recorder, good heads, needs adjustment. Would exchange for 144MHz-430MHz TX/RX portable, Icom, Trlo, Linc 2 or w.h.y. G1BTG, 15 Cemetery Road, Bradford BD12 0EU. V707

Have 16K ZX81, 20in black and white TV, tape recorder, £80 of software, books, blank tapes, ZX Computing and Sinclair Programs mags. All worth £200. Would exchange for SX200N or equivalent scanner, or hand-held type. Richard Hughes. Tel: 01-445 7093. V774

Have Chapman valve tuner a.m./f.m. stereo six-stage, variable selectivity sensitivity 2 microvolt all bands. Coverage 175-570, 43-140, 13-43 metres, bandspread 11,13,16,19,25,31m and 88-108MHz, with manual. Would exchange for Weston exposure meter, Practiflex. Tel: 07917 62437 (Shoreham, Sussex). V727

Have Eagle RF45 field strength indicator (unused). Would exchange for Ferrograph 6in clip-on spoke type metal spoils or Ferrograph mic transformer TA/30/ML (30/50Ω to med. impedance). Tel: 021-458 5374 evenings (Birmingham area). V728

Have Drake SSR1 s.w. RX as new with handbook. Would exchange for good 10MHz c.r.o., 95mm display or larger. Would prefer solid state. Tel: Redbrook Maelor 218 (Shropshire). V743

Have Trio TR-9000 144MHz multimode in good condition, low power s.b. mod. Would exchange for FT-221, any condition if working ok. Cash adjustment if necessary. Chris Walker G6ELH. Tel: Watford (0923) 30254 evenings. V770

Have Rotel RVC240 CB rig, antenna and d.c. power unit for mains use. Would exchange for MK123 TX/RX. D.T. Price G3LYU, 16 Dorset Ave., Glenfield, Leics LE3 8BB. Tel: 0533 876459. V771

Have 16K ZX Spectrum (issue 2), software—including aspect assembler and Spectrum Machine Language for the Absolute

Beginner. Would exchange for c.r.o. or v.h.f./u.h.f. gear (e.g. 144MHz TX) or TVDX equipment. Steve McGuigan G8MFI. Tel: 01-852 8265 (Blackheath, London). V772

Have Bearcat 100FB 16-channel synthesised hand-held scanner including case, NiCads, charger, cost £345. Would exchange for FT-208R or similar hand-held 144MHz TX/RX. Mike. Tel: 081-736 5422. V773

Have C-Scopes metal detector (discriminator, ground exclusion, a.d.c.) hardly used—value £200+. Would exchange for Racal RA17L or other good communications receiver with cash adjustment if necessary or Morse/RTTY reader. R. Robbins. Tel: Lymington 22342 (Hants). V781

PW "SWAP SPOT"

Got a camera, want a receiver? Got a v.h.f. rig, want some h.f. gear to go with your new G4? In fact, have you got anything to trade radio-wise?

If so, why not advertise it FREE in our new feature SWAP SPOT. Send details, including what equipment you're looking for, to "SWAP SPOT", *Practical Wireless*, Westover House, West Quay Road, Poole, Dorset BH15 1JG, for inclusion in the first available issue of the magazine.

A FEW SIMPLE RULES: Your ad. should follow the format of those appearing above; it must be typed or written in block letters; it must be not more than 40 words long including name and address/telephone number. Swaps only—no items for sale—and one of the items MUST be radio related. Adverts for ILLEGAL CB equipment will not be accepted.