

# TIME STEP ELECTRONICS LTD

## FRG7 OWNERS ARE GOING — DIGITAL AND SIDEWAYS

And you can join them by using our custom designed DFC70 digital frequency counter. The DFC70 is specifically designed for the FRG7 and gives rock steady read out on all bands with 100Hz resolution. Signal frequency is computed and displayed unambiguously on a state of art LCD display specially made for us in Japan. It is not necessary to drill any holes and only one wire has to be connected to a well marked test point in the receiver.

**DFC70 Kit £19.95 Built and tested module £24.95**

Will also work with the Lowe SRX30 and Drake SSR/1.

With our new FM7 adaptor module, you will be able to receive side-ways modulation (F.M. as it is otherwise known). Our superb state of art F.M. detector uses the very latest 3359 chip from Motorola, and has a built in I.F. filter and a variable squelch control for noise free monitoring. Although specially designed with the FRG7 in mind, it will happily work with other receivers or transceivers with a 455kHz I.F. amplifier. The FM7 will add a whole new dimension to your listening activities. You will of course be able to follow legal C.B. contacts but you will also hear the exciting D.X. being worked by amateurs on 10 metre F.M. Used in conjunction with our DFC7 counter, you can accurately tune to a specific C.B. or amateur channel and so be sure that you will not miss whatever goes on.

**Kit Price £9.95 Tested Module £14.95 P&P £1.00 (VAT inc.)**

For F.M. reception on receivers with any I.F. up to 50mHz., the FM42 is the answer to all your problems. *Please state frequency required when ordering.* **Kit Price £14.00 Tested Module £19.00 P&P £1.00 (VAT inc.)**

## TIMOTHY EDWARDS MK2 144 MHz PRE-AMP HEAR IT LIKE YOU NEVER HEARD IT BEFORE

We are proud to announce that the well known R.F. consultant Timothy Edwards has given us the exclusive marketing rights to his new 2 metre pre-amp. Timothy Edwards R.F. designs are used by British Telecom amongst others and so you can be sure that this pre-amp will perform to perfection. It employs the incomparable BF981 which has a better noise figure at 2 M than the often used 3SK88. Spec. Size (tiny) 34mm x 9mm x 15mm (same as Mk1) Noise figure 1.0db Gain 26db **Kit Price £4.95 (inc. VAT & P&P).**

### TRANSISTOR

	mHz	PoutW	Pln W	Volts	Price
2 N6456	30	60	1.25	13.8	£5 (inc.)
BLW60	145	50	10	13.8	£5.25 (inc.)

Not 3SK88 but BF981 Better 2 M noise figure - 0.6 db  
£1.40 (inc.) ZTX 501 Gen. purpose P.N.P. 0.5 A,  
20 for £1.25 (inc.)

### BARGAINS

### NEW LCD COUNTERS

At last a new range of 5 digit LCD counters that will cover up to 200MHz and give 1KHz resolution to 39MHz. Ideal for most short wave receivers using common IFs. Similar to the FC177 but cheaper! Supply voltage 5-15V dc. Will operate on 26 different IF offsets. If this counter range won't do what you want probably nothing will.

**DFC40 0-4MHz £14.95 built**

**DFC41 0-32 MHz £18.50 kit**

**DFC42 0-200MHz £21.95 kit**

**LNA144.** Our ace RF designer Timothy Edwards has done it again! In line 144MHz RF switched pre amp which needs no modification to any rig. Just put it in the co-ax feed, supply 12V and your deaf rx will have ear ache. Uses the BF981 with a total of 4 tuned circuits for the best out of band rejection. The relays are 50ohm gas filled with earthed metal cans and are good to over 800MHz. This was originally designed for 'British Telecom Satellite Division' hence the provision for gold 14GHz SMC connector. 1dB noise figure and 18dB gain is guaranteed to improve all standard rigs on 144-146MHz. Will fit in standard diecast box (not supplied). Try one in the car under a wing mounted aerial and be surprised. **LNA144 kit £14.95. Built and tested module £24.95.**

**TONE BURST.** Probably the smallest crystal controlled unit available. 1750Hz  $\pm$  0.1Hz. Supply 5-15V. Will fit in the tiniest of rigs or even microphones.

**TBI Kit £6.50**

**SCRAMBLER.** At last a real voice scrambler for use on any radio system or telephone. Variable codes selectable for optimum security. As used by USA law enforcement agencies. Will fit inside most mobile transceivers and will operate on AM-FM, SSB or any other mode. One unit is required for each radio or telephone. **SC100 £135.00.**

**TOP BAND CONVERTOR.** Listen to the other local nets and DX on 160m with any 2m SSB receiver. Does not need a large aerial and will comfortably out perform most commercial receivers.

**UC160 Kit £9.95 UC160 built and tested £16.50**

**2M MONITOR RECEIVER.** A superb design featuring crystal and ceramic filters coupled with the MC3359 and BF981 results in an almost bomb proof monitor. Single channel with squelch and 500mW audio amplifier. No coils to wind and little alignment required. Uses standard crystals from 'PM Electronics'. **MON2M Kit £14.95 Built and tested module £25.95.** For professional use on 18-200MHz built and tested module **£34.95** including crystal.

**ULTIMATE 2M MOBILE AERIAL.** For those of you who don't want the world to know. Fully automatic professional quality electrically retractable aerial. Can be used manually or will erect when the rig or car radio is switched on. Full duplex design allowing LW-MW and stereo FM to be used simultaneously with 2m. Half wave electrically loaded for superb performance on 144-146MHz. Maximum input power 30W. This unique design can be used with our LNA144 for outstanding results. **DUP2M £29.95.**

## STOCK CLEARANCE

**FM STEREO TUNERS.** LW-MW and stereo FM as Practical Wireless offer.  
Last few only **£4.95**

**All prices include postage and VAT. Send 35p for individual data on any of the above.  
Mail order only. Please allow up to 28 days for delivery.**

**TIMESTEP ELECTRONICS LTD, WICKHAMBROOK, NEWMARKET, SUFFOLK.**