

A 2.304GHz signal source

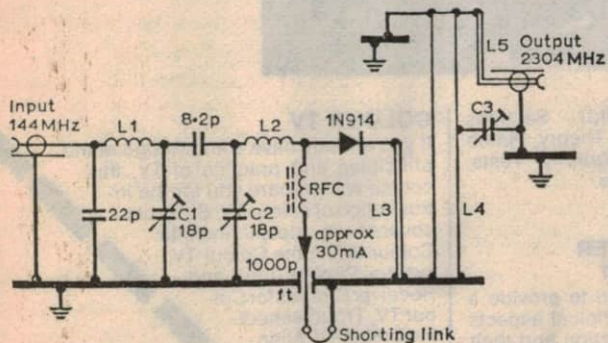


Fig 1. Circuit of a 144MHz/2.304GHz multiplier
L1: 4t 20swg enam copper $\frac{1}{4}$ in id
L2: 5t 20swg enam copper $\frac{1}{4}$ in id
C1, C2: 18pF tubular trimmer
RFC: 3t 22swg enam copper on ferrite bead
C3: 4BA screw in a nut soldered to pcb

English radio amateur G8ADP has supplied details of the 2.304GHz source he uses in setting up his equipment. The unit shown in Figs. 1 and 2 is a x16 multiplier which requires 300 to 500mW of

144MHz drive from an exciter. The multiplier is built on a double-sided PCB which forms the lid of a standard 3.6in x 1.5in x 1.2in Eddystone die-cast box. It is aligned by applying the drive and

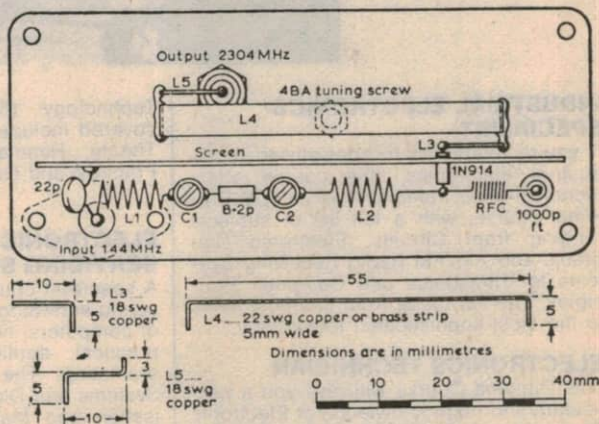


Fig 2. Layout of multiplier

tuning C1 and C2 to peak the diode current at about 30mA. The output line is tuned by the 4BA screw which constitutes C3.

(From "Radio Communication".)