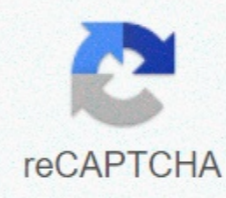




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straightening. This model covers all five classic HF amateur bands, which are &lt; 4 limits. Because the structure is equal to Figure 4 except for the top capacitors, both can be tested with identical components. This model must also be corrected with a speed factor of 0.89, which brings dimensions: L1 to 4.72 m. and L2 to 11.21 m. total antenna length to 31.87 m, excluding traps and transformer. Traps The simplest way to make traps in general and traps especially for this model is to take a short piece of pvc drain pipe, for example an outer diameter of 40 mm. For this material, the end caps are available to turn this coil shape into a neat little box perfect for a resonant capacitor. When using a 2 mm pvc-clad electric cable, 13.5 switch this coil former on to produce an inductive of 5.4 µH. This value can be verified by connecting Q 22 kHz series resistance and connecting this serial circuit to a 648 kHz HF generator. (calibrated against the BBC in Europe). The resistance voltage shall be equal to the inductor voltage (the resistance voltage should also be 0.7). For amateurs with different tastes, the same method works on a 47 Ω-lined generator 1,386 (calibrated against Voice of Russia). With these low frequency, the effects of parasites are not yet too noticeable. The value of the capacitor can be found by resonant with an 8.00 MHz trap reel, e.g. a dip meter calibrated A good way to make and tune this capacitor is to use a piece of RG58 co2 cutting for resonance, as this makes for a very good high voltage capacitor. When using RG58U, this piece is about 65 cm long and resonates directly to the trap cot at 8 MHz. When ready, make sure that the short inside cable length extends beyond braiding as it prevents the end from curving. The length of the coax capacitor can be folded inside the box, preferably perpendicular to coil coiling, as it affects the final trap resonance and trap Q least. In my test antenna, I drilled a small hole in the end caps to make a short piece of nylon rope through the end. The knot in this rope ensures the end ends and at the same time the mechanical connection of the antenna wire, which separates the mechanical electrical connection to increase mechanical and electrical strength. The trap structure can be in figure 1. Look at the small dimensions compared to the match screen. The Tywraps wave was used to facilitate winding and to take the load on the electrical connection of the wing nut. Figure 1: The trap structure with the inner capacitor and the 5.4 µH indator Impedance converter Impedance converter with a step ratio of 1: 2.25 is a bit ordinary, but Jerry Sevic's design, as shown in Figure 6, does a good job. Figure 6. A 1: 2.25 transmission line transformer. To get a high enough contribution to the output break-up, Jerry assigns a transformer to an MH&amp;W Inti (TDK) type large K5 (NiZn) type ferrite tooid with a permeability of 290 and five good quality RG58 cokes. The exterior plastic capsulation has been removed to facilitate processing. This is perfectly permissible because the braids have the same voltage (see Figure 6) and the electrical resistance of the ferrite core is very high (&gt; 1 MOhm.cm). The picture in Figure 7 depicts Jerry's trap. Figure 7: Data from Jerry Sevic's 2.25 impedance test converter can be taken from Figure 6. The feed line is connected between position B and the ground; there is a 1.5-fold supply voltage between position A and the ground, so an impedance of 2.25 times. Ferrite type K may no longer be too much, but it can be replaced by Type 4B1 Ferroxcube. As stated earlier, the main function of nuclear material is to get a large feed to the output power of the transmission lines. Therefore, any type of ferrite material and number of translations will make, as long as the total impedance is high enough at the lowest operating frequency (approximately 150 Ohm for a single coil) and the self-decoding of the transformer is within the material limits (see Ferrite materials, check at the highest operating frequency) The test antenna performed a transformer coil (8) each coar separately with one Ferroxcuben 36 mm 4C65 toroid. This operates at the predicted lower limit of 3,5 MHz. Other materials (and larger coils) were already in line with specifications below 1 MHz, and all are still very effective above 30 MHz. The overall converter is placed in a box made of sewer pipe, the diameter of which is somewhat larger this time and is again closed with end notes. The simple hook structure allows for lifting positioning and a small piece of trespa strengthens this position while allowing mechanical attachment to antenna wires to carry the load of electrical connections (wing nuts). Figure 2 shows the structure of the RG58 coke and several turns to ensure the separation of the symmetric feed line and antenna and transformer from the RF choke. Figure 2: Impedance transformer 1: 2.25 with two 4C65 toroids Fig. 3 provides a better view behind the transformer box, including a trespa re-taoying and pulling disc. Figure 3: Transformer box, butt, resting on top cover (taken off) RF strangler As mentioned above, we need to pair symmetrical dipoli antenna with symmetrical transfer line. This usually happens with some kind of balancing device, sometimes as a balance transformer with or without a conversion ratio. Our multi-band antenna 1: 2.25 impedance converter has no balancing properties. Balancing the power of the transmission line with the antenna ensures that all the power in the transmission line goes to the antenna and not elsewhere, for example outside the supply cable. A good way to prevent the outer current from being a significant part of the total radio frequency RF current, which is external impedance by strangulation. A simple way to ensure such suffocation is that the length of the feed line is coiled; about ten feed line revolutions from 10 to 15 cm in diameter usually provides a sufficiently high impedance for a large number of HF amateur bands. To obtain a compact structure, this RF strangler is wound in the transformer housing with a right diameter of 10 cm. For this RF choke power to be effective, the transceiver is low impedance grounded because choking on trx ground impedance effectively makes the voltage divider. Combining all shack devices usually allows for a sufficiently low ground impedance while ensuring equal potential for all devices for safety reasons. Practical experience As a practical test, a has built a model 9 type antenna. As predicted, all HF amateur frequencies at 80, 40, 20, 15 and 10 meters were within reach of the inbound tuner on my Kenwood TS440s. Up to 18 m could be used to make a low ed. As a second test, I checked the lowest impedance in each HF band without using a tuner. It showed that this resonance frequency was sometimes outside a particular amateur band, although Apparently, the builder's tuner didn't seem to mind. The test antenna is set to unknown ground conditions (presumably poor), it was tied to the highest point about 9 m. and sloping from a distance of about 6 m., at one end not even fully extended for property reasons. To model the exact situation, the program came almost exactly to the goal, again forcing my confidence in this application and my calculations. Based on this self-confidence, I re-calculated the trap so that the antenna was carried out at the original target frequencies, as the wires had already been cut to size. For those who also want to prune the antenna to define their environment, I will give the following table based on local experience. Keeping the trap resonance frequency constant, I found that for every 10% increase during the inductive of the trap, the antenna resonance at 80 m decreased by about 0.5% to 40 m. decreased by approximately 0.5% by 20 m. increased by approximately 0.5% by 15 m. increased by approximately 0.2% by 10 m. did not change much These ratios were constant with a wide change of inductor. Most notably: the above changes went in the right direction of my antenna position. Conclusions In this article, we explore a trap antenna field that covers more than two HF amateur bands. From the solution mode, we selected three models that met the starting conditions, that the design should have good figures for the confirmation and radiation angle and have sufficiently low impedance figures (SWR) to be connected directly to the 50 Ohm coaxial gearbox without excessive additional losses and within the range of a simple built-in antenna graph for modern HF transmitters. The final design shows a standard antenna win of 6 dBi lower HF bands (80 and 40 m.) rising to higher values for higher bands up to 11 dBi for the highest HF amateur band. Note, however, that these maximum win figures are in slightly different directions depending on the specific band. As with any model, the height angle depends mostly on the height of the antenna above the ground, so this model should preferably be used at 10 m or higher, although good results have already been obtained at an altitude of 8 meters. The height of the antenna also affects (slightly) the resonance frequency. Needless to say, this is the best multi-band antenna with many DX contacts to prove this. This is usually the claim of most antenna designers, and they are not very different about it. This exercise taught me a few practical laws about wire antennae that I make without further comment: - each wire is an antenna, the antenna receives almost exclusively depending on the size of the antenna relative to the wavelength, starting at about 1/10 wave length, the antenna system is more efficient with characteristic impedance closer to the feed line and TRX requirements. Even a high-powered antenna loses its effectiveness A lot of energy is lost in cable/transformer losses. - the dipoli antenna is more effective for DX function when it's higher above ground level because this lowers the elevation angle, in local use the antenna needs to be placed much lower, but not (much) lower than about 1/10 wavelength above ground (not so perfect) to prevent excessive ground loss. Bob J. van Donselaar, mailto:on9cvd@amsat.org mailto:on9cvd@amsat.org

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