



SHACKNEWS

HIGHVELD AMATEUR RADIO CLUB

OCTOBER 2010

COMMUNICATION IS THE NAME OF THE GAME

Meeting The AGM for 2010 took place on Saturday 16 October. A reasonable turnout of members and two visitors. The Chairman's report was tabled as well as the report from the treasurer. A budget was tabled and discussed with the members present. Looking at upcoming expenses and the membership it was decided to increase the annual club subscription to R120.00. The new committee appears on the last page.

Frank, ZS6TMV, gave us an interesting talk on an antenna matcher that he has bread boarded. This is quite a simple unit to put together. The info to construct is available on the web at: See pic below

<http://www.xs4all.nl/~pa0fri/ATU/FRIImatch/FRIImatcheng.htm>

The article is too large to publish in this news letter.

The new committee would like to thank all those who have contributed to the club events during the last club year. Those who assisted at Hobbitech, bulletin readers, Porky Club net controllers and all those who gave talks/demonstrations at club meetings - a BIG thank you.

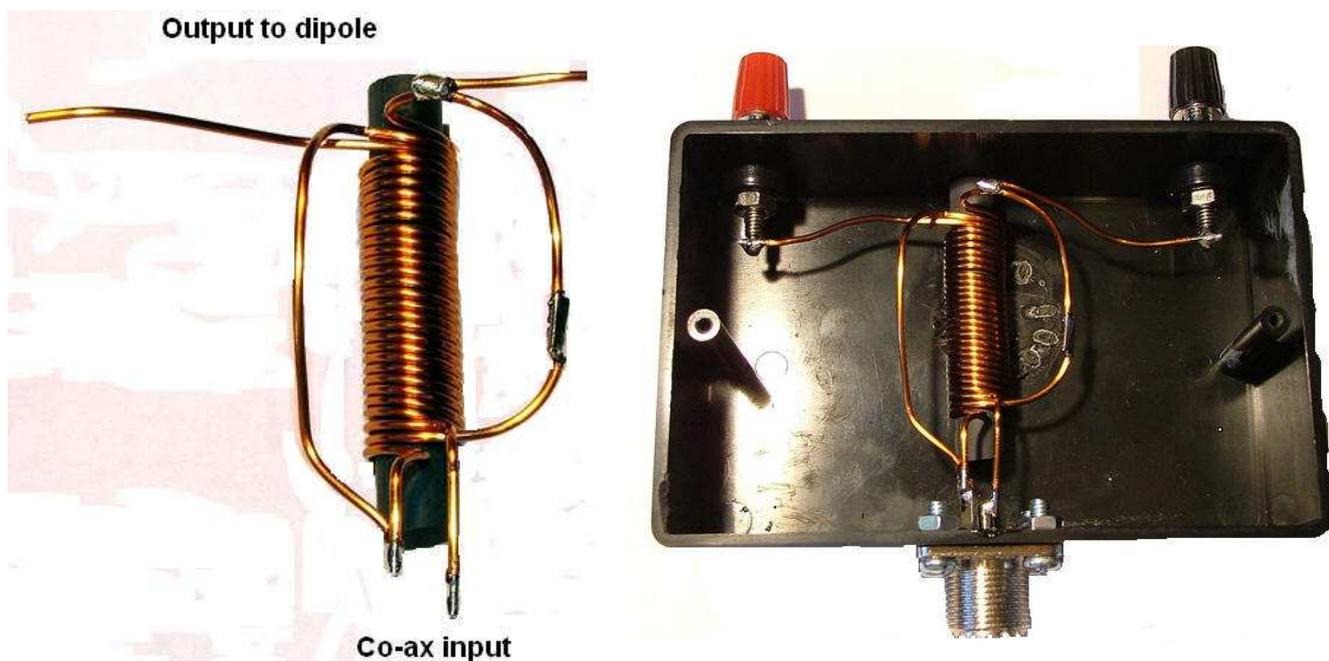
SSC Meeting No meeting this month

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Just one picture of the many variations of the tuner that Frank discussed



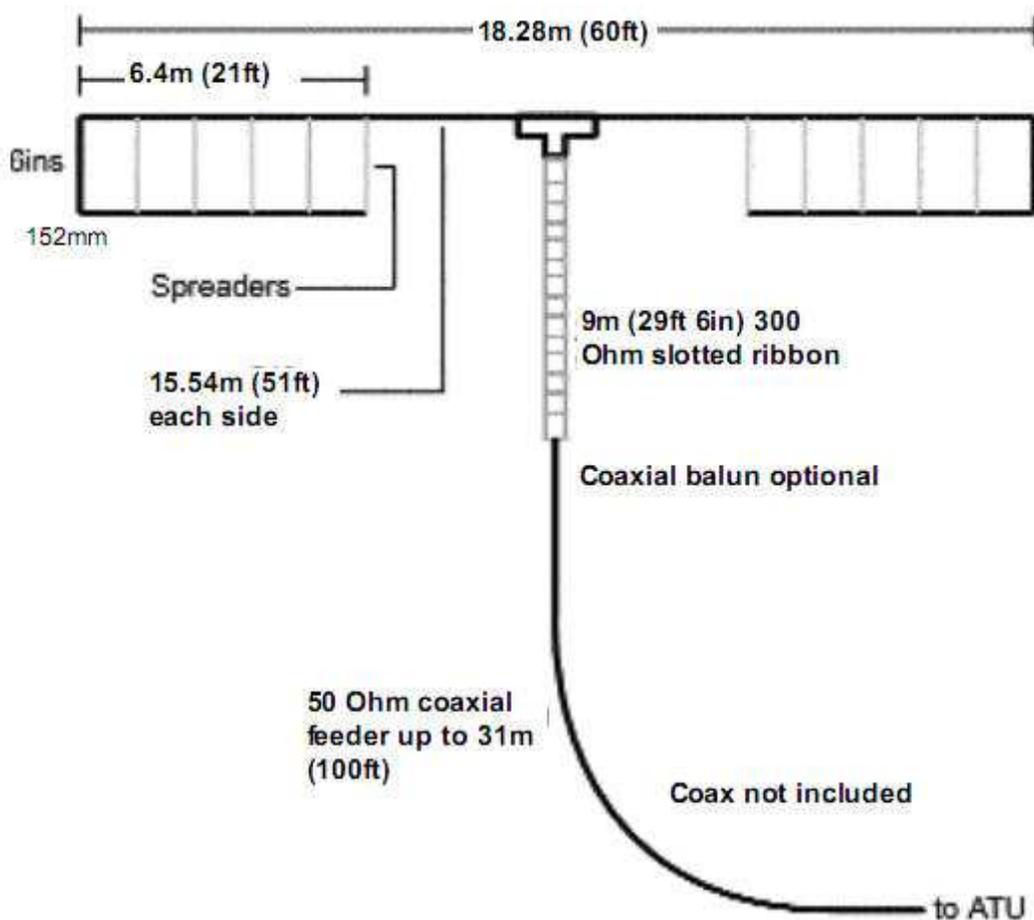
A 1:1 voltage balun



Here is a 1:1 50 ohm balun for use on HF horizontal/Inv V wire dipoles. It uses an AM radio ferrite rod, with 3x9 turns of wire. Use 18SWG enamelled copper wire. It all fits in a small project box. Great for setting up portable.

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A small garden G5RV antenna



A small garden G5RV antenna from previous page

The antenna described in this article, is a compromise, as are all multiband antennas. But never the less it is easy to make and performs extremely well.

The maximum length of garden dictated that the antenna should be 18.28m (60ft). All band capability was required, and having tried various designs with poor results it was decided to try folding a full size G5RV using the Linear Loading Principle. Linear loading is where you take a full size antenna and fold the elements into a smaller physical space maintaining four to six inches separation between the folded elements. There is some interaction between the folded elements and the main radiator usually lowers the feed point impedance. However, as this antenna is tuned using an ATU this is not an issue. The original spacers were made from fibre glass sheeting, but any water proof and rigid material would be acceptable. When constructed the antenna was fed with 300 ohm slotted feeder and 50 ohm coax. A choke balun was later added to eliminate RF levels in the shack.

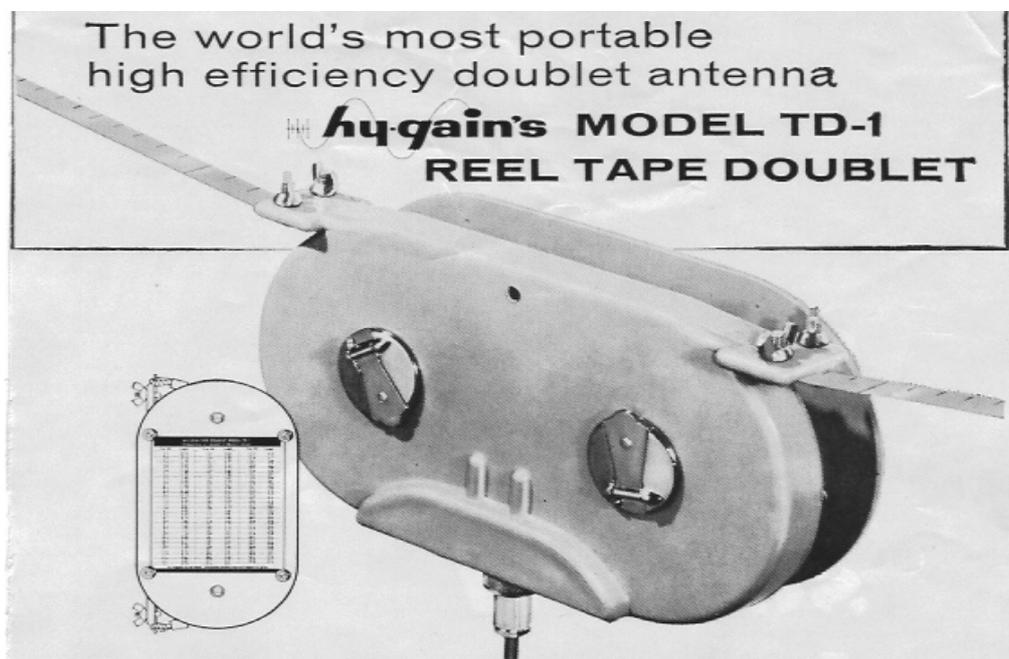
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Antenna idea made from steel tape measures

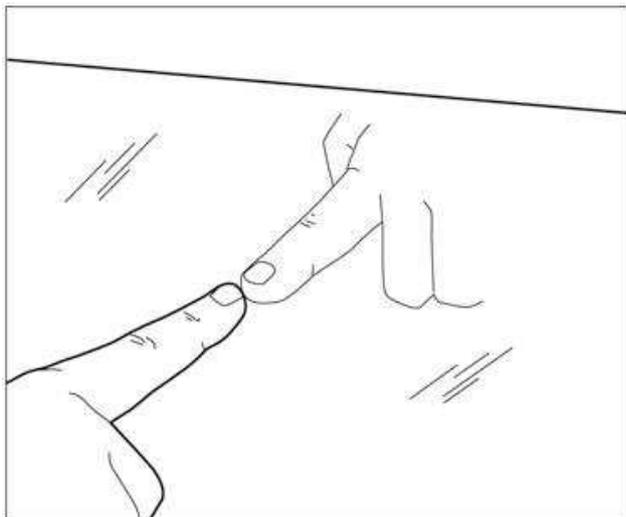


This is similar to the Hy-gain Model TD-1

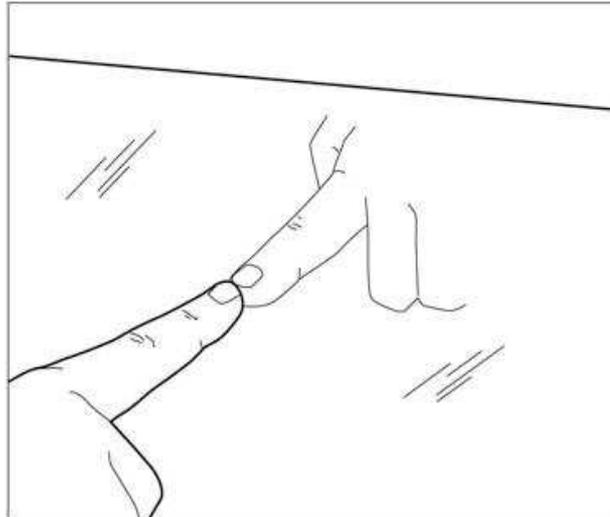
Frequency depends on the length of the tapes you can find



How do you check for a 2 way mirror ?



A normal MIRROR...has a gap between finger and reflection



2-WAY mirror no gap between finger and reflection

CLUB INFORMATION

Postal address PO Box 19937 Sunward Park 1470

Website <http://www.qsl.net/zs6hvb/>

e-mail zs6hvb@gmail.com

Repeater 145.1875 MHz input - 145.7875 MHz output

Linked to 70 cm - 438.850 Mhz (Sunday bulletins)

Bulletins Sunday morning - 145.7875 MHz & 7062 KHz @ 08h45.
Relay - 80M - 3662KHz

Committee

Monthly meeting venue

Germiston Methodist Church
Hall
Lady Duncan Rd
Germiston

3rd Saturday of the month at 14:30

Chairman	Ton van Dijk	ZS6ANA	011-432-5494
Secretary/Treasurer	Berridge Emmett	ZS6BFL	011-893-1291
Assistant Secretary	Marianne Treyvellan	ZR6JMT	084-403-3355
Repeater/Technical	Ton van Dijk	ZS6ANA	011-432-5494
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Club bank details

First National Bank - Current Account 62116557309

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