

DX-KUUNTELIJAN PIENEN TILAN ANTENNIT.

LOOPPI

K9AY

KAZ

EWE

FLAG

SUPER LOOP

1. LOOPPI

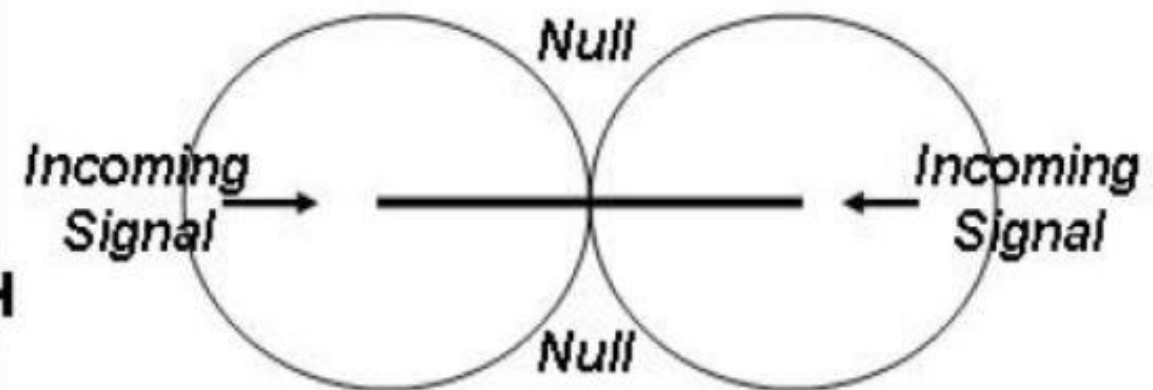
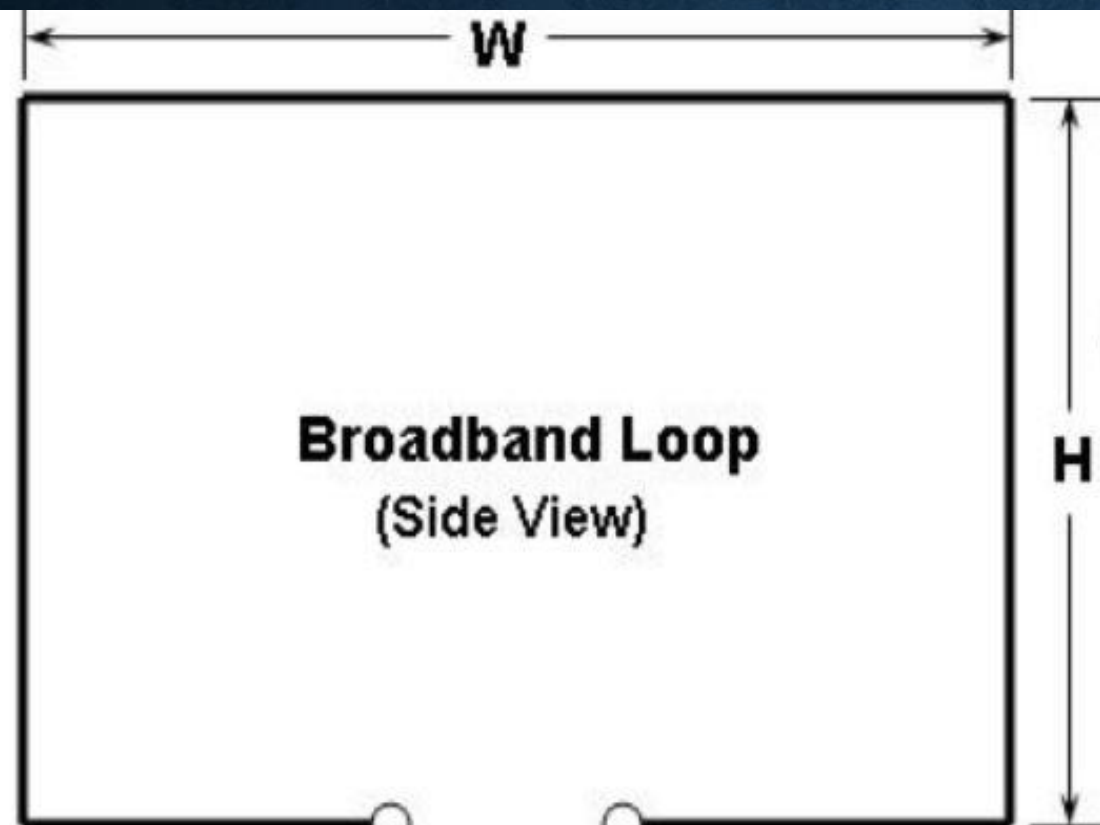
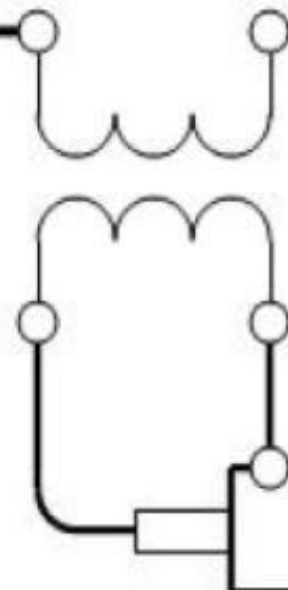


Figure-8
Reception Pattern
(Top View)

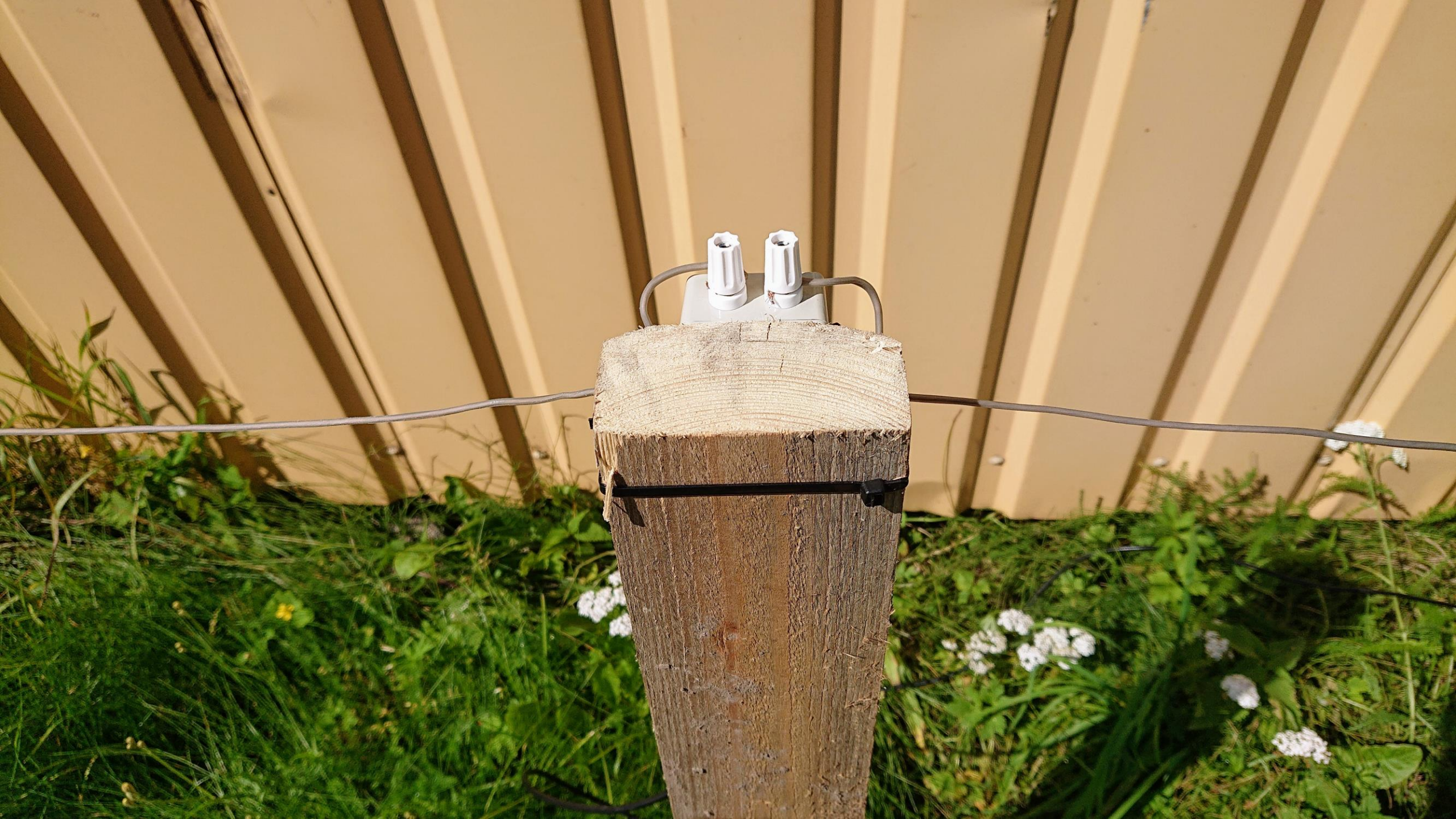


2:1 RF Matching Transformer

Coaxial Lead-In



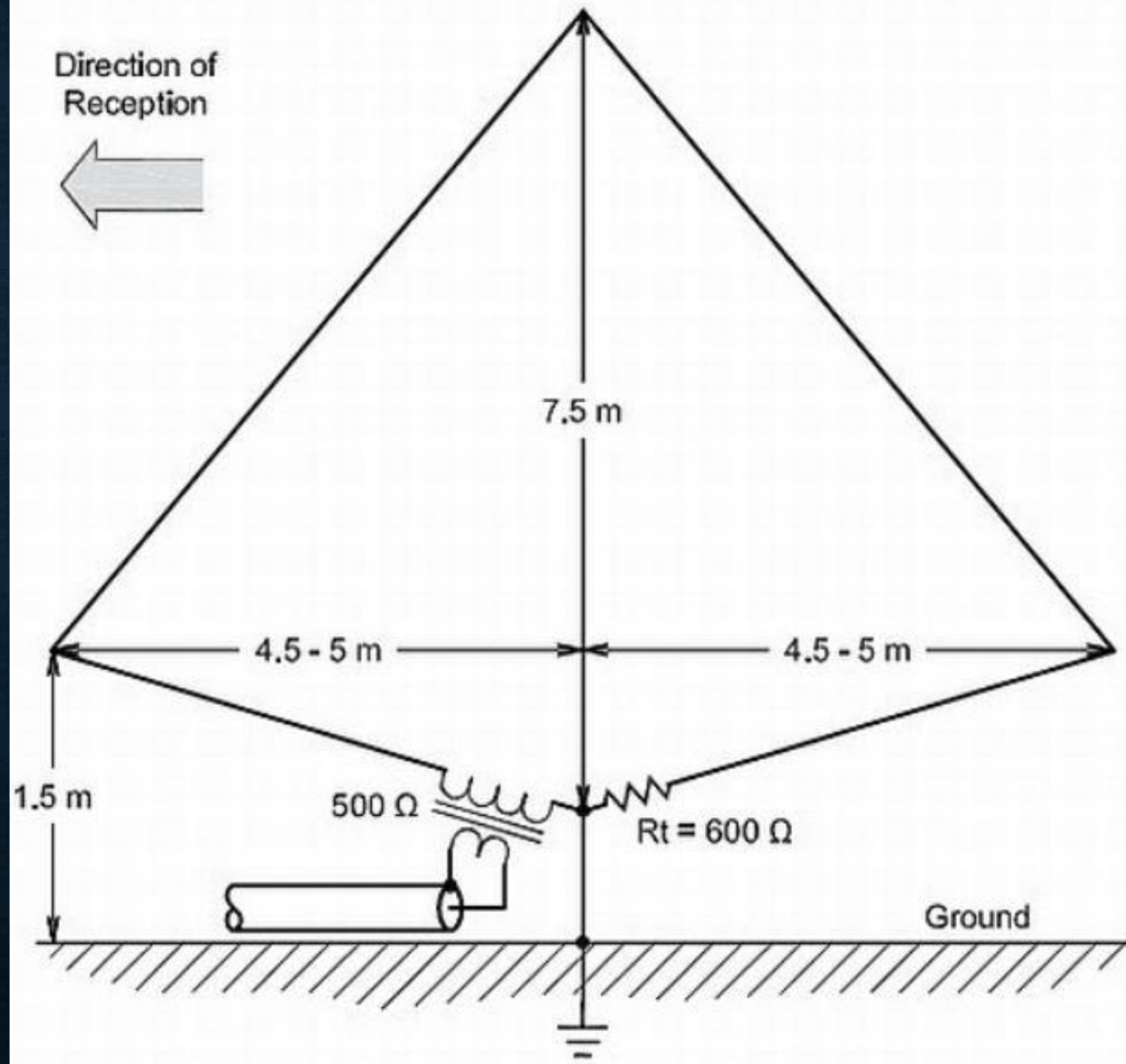


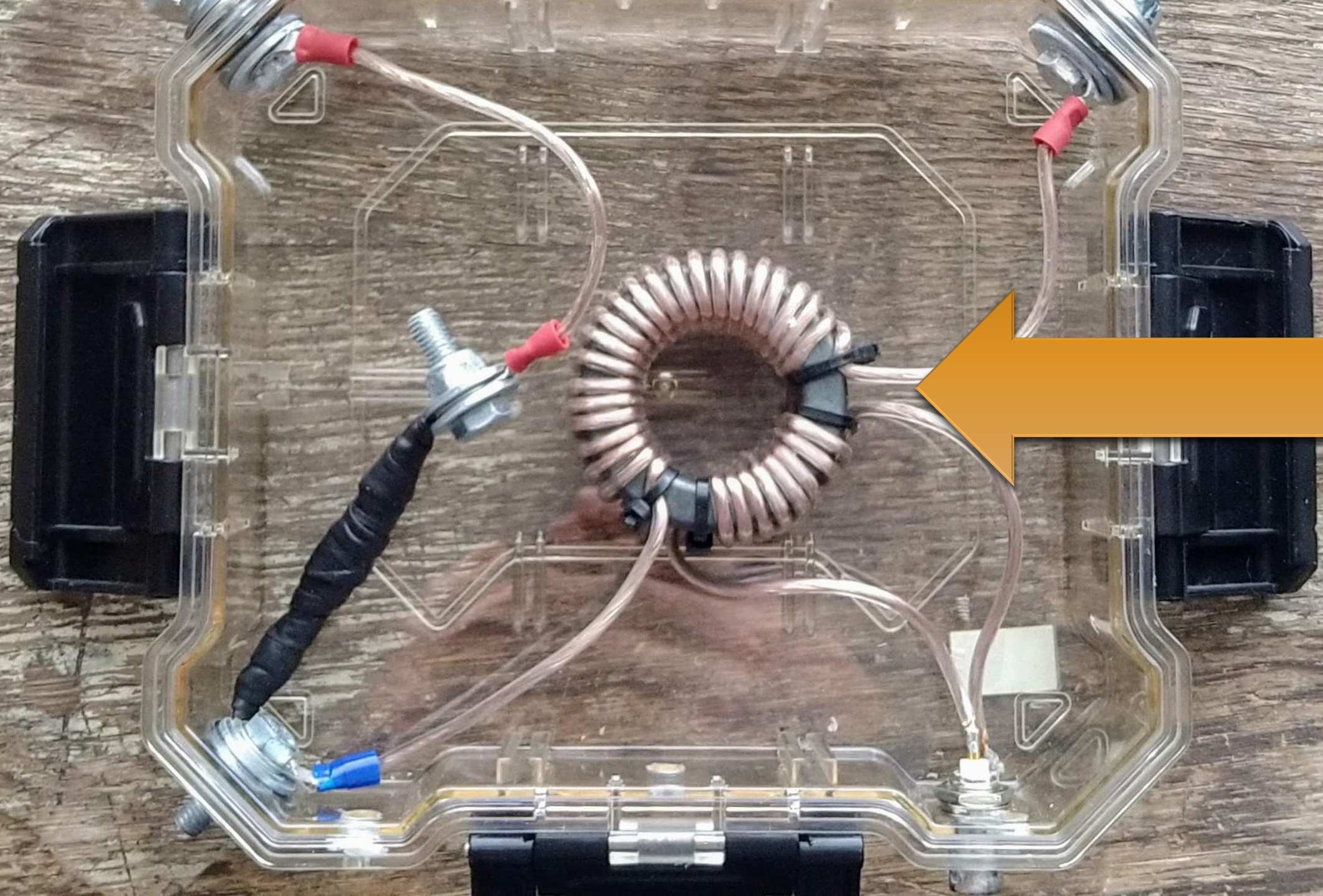


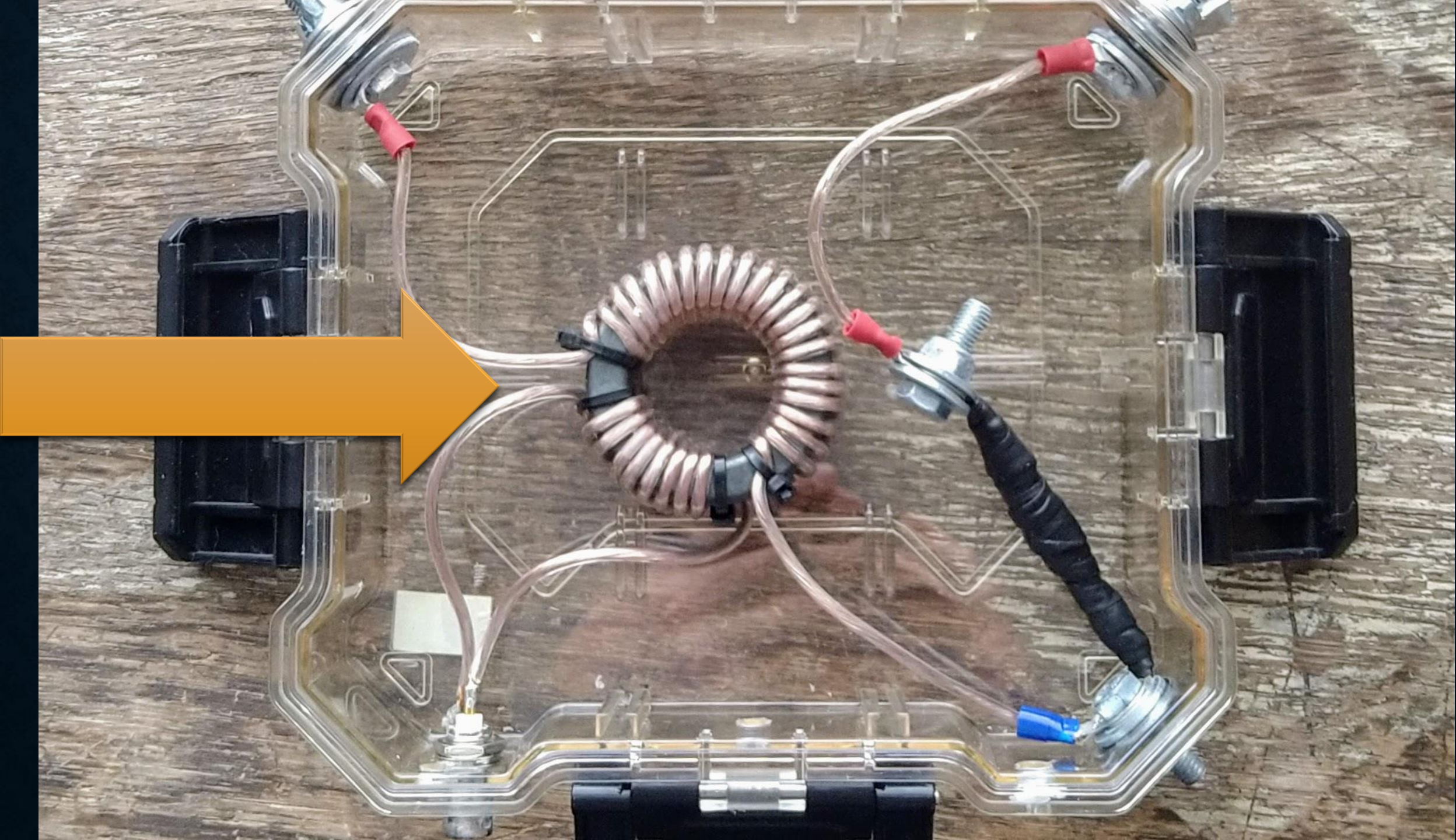


2. K9AY

© GARY BREED, 1990'S

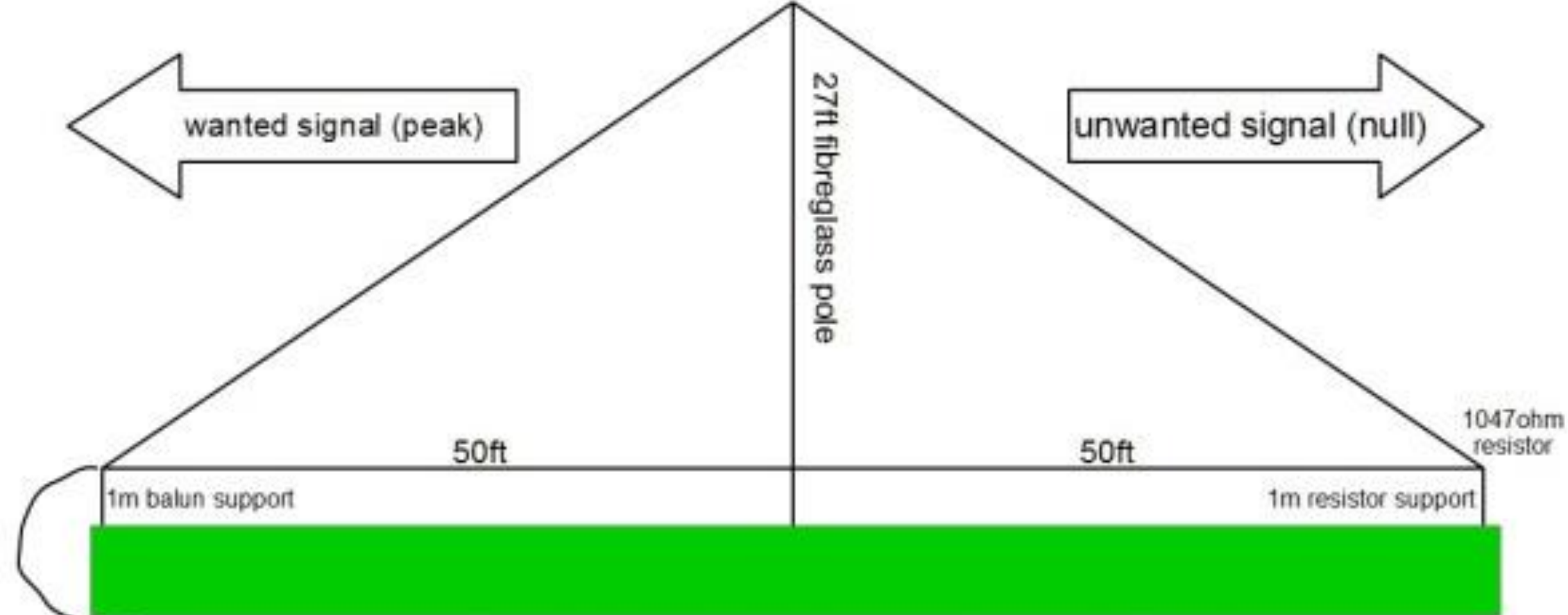






3. KAZ/SUPER KAZ

© NEIL KAZAROSS

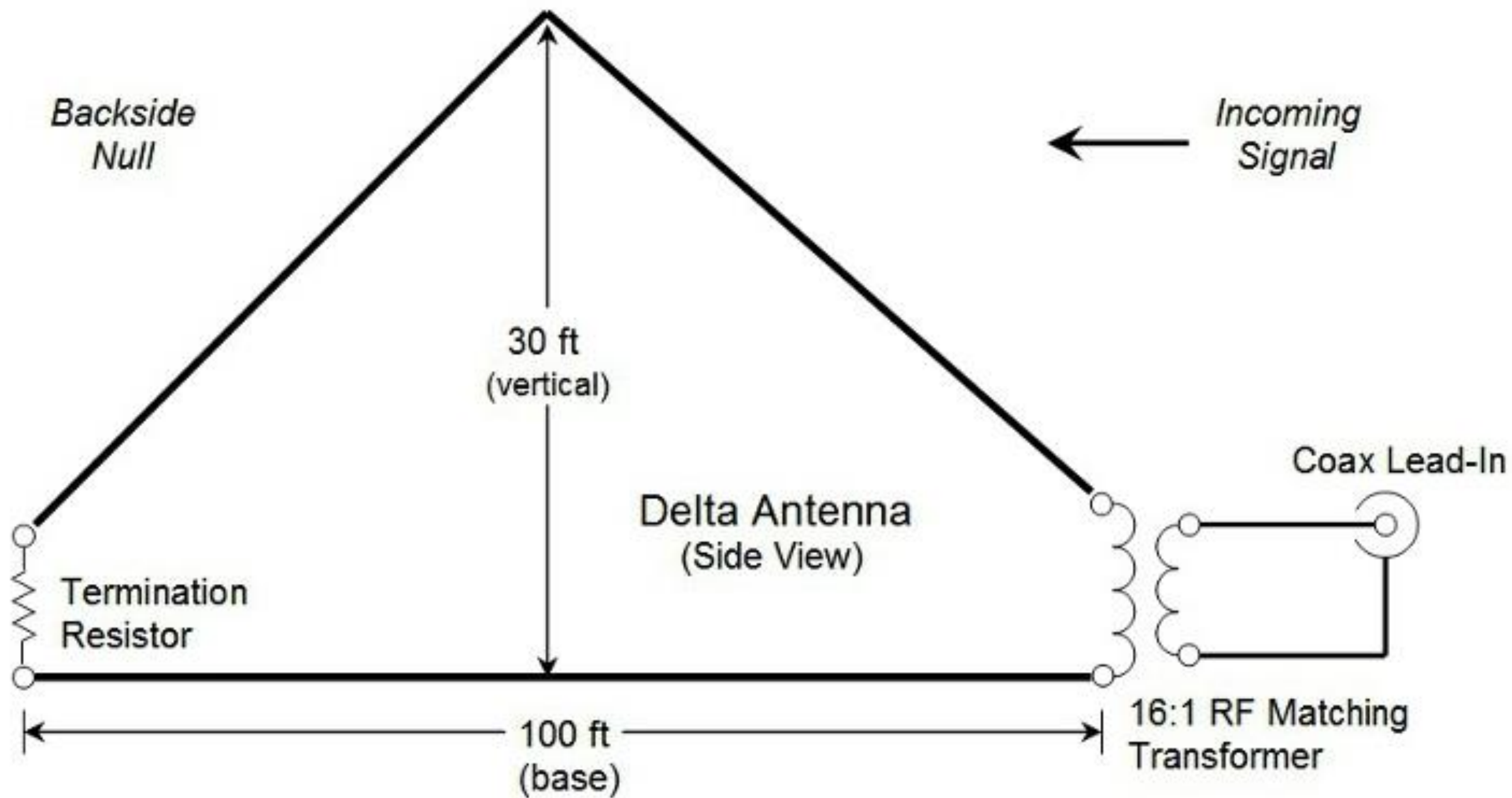


Super KAZ antenna as used by GM1004SWL for MW dxing

60ft of Italian ultraflex 7 coax

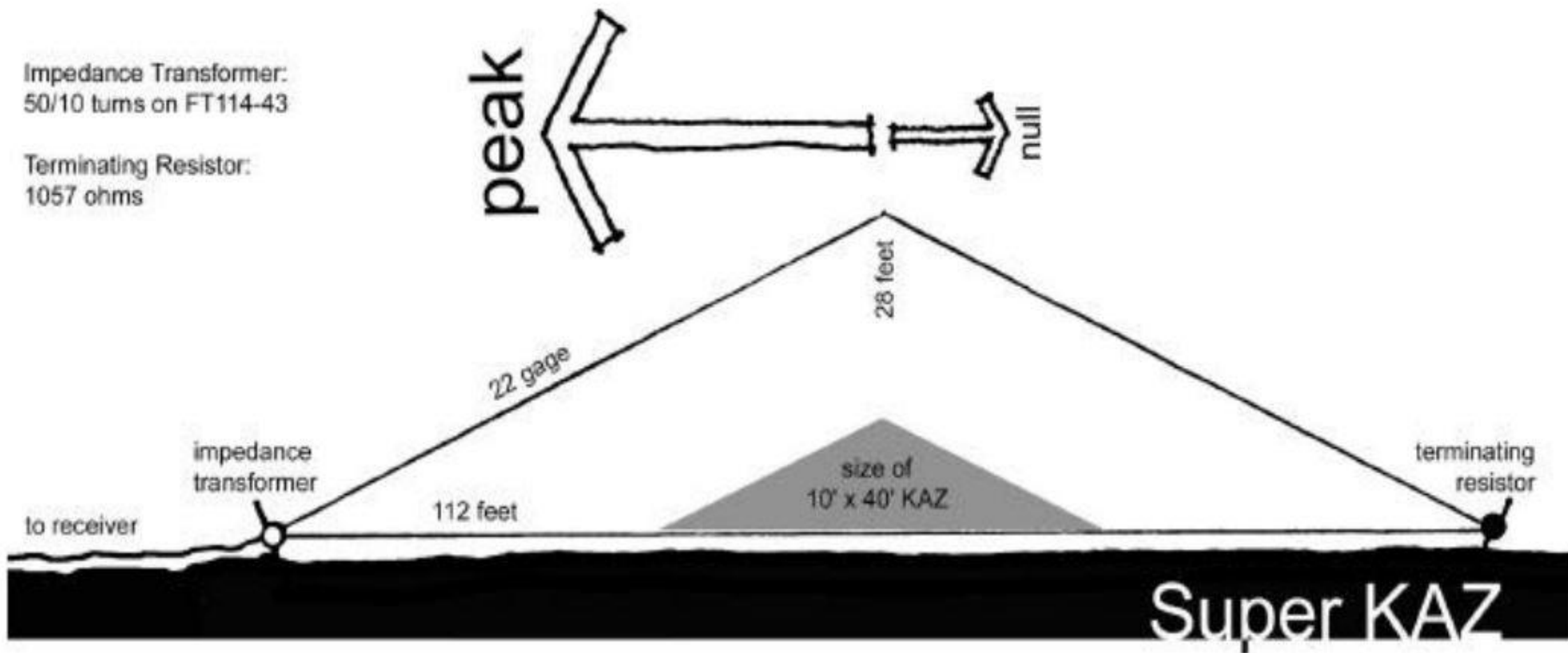


Balun design
48 turns antenna
10 turns coax



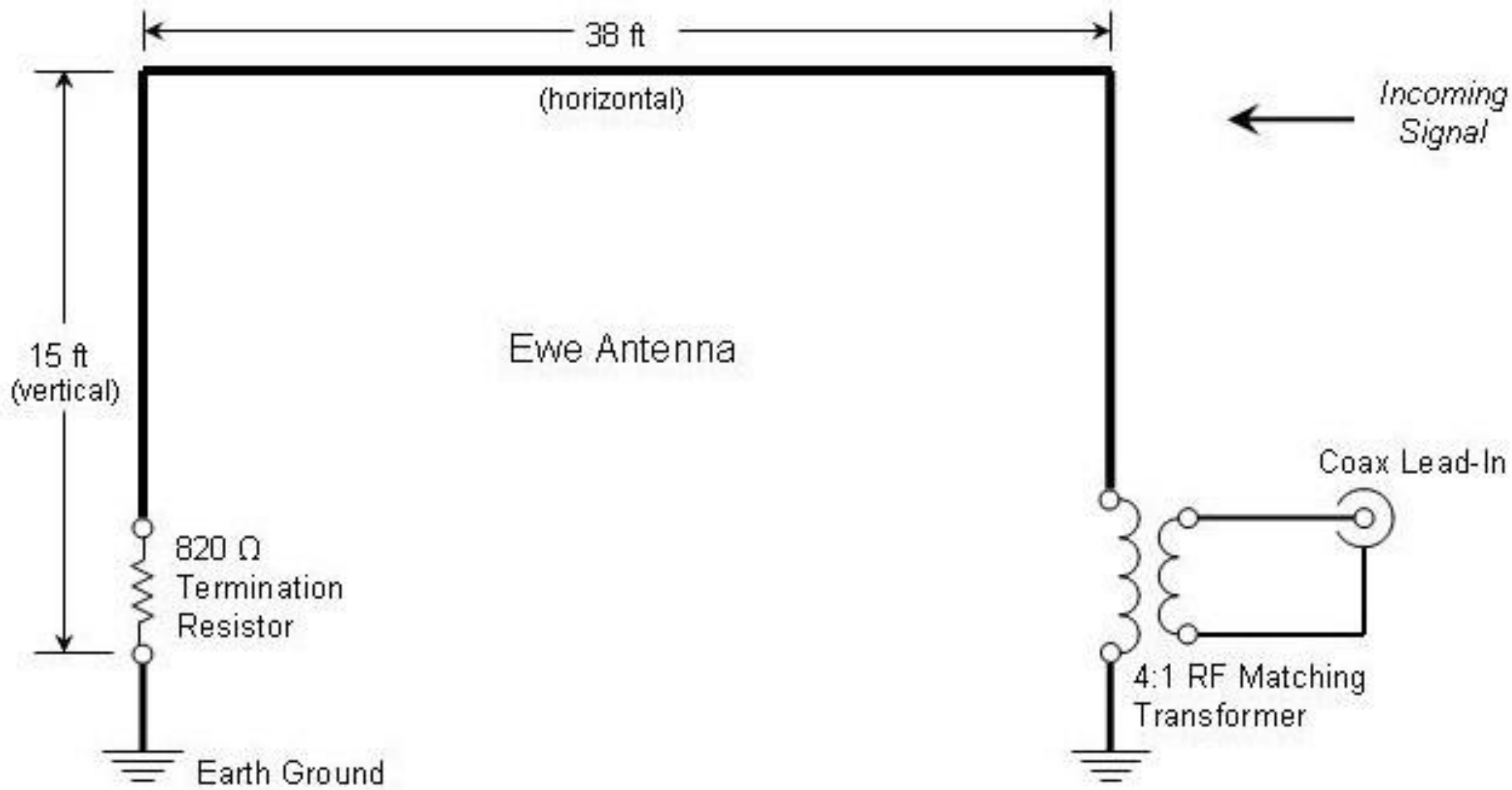
Impedance Transformer:
50/10 turns on FT114-43

Terminating Resistor:
1057 ohms



4. EWE

© FLOYD KOONTZ, 1995



Hieman matematiikkaa edellisestä kuvasta:

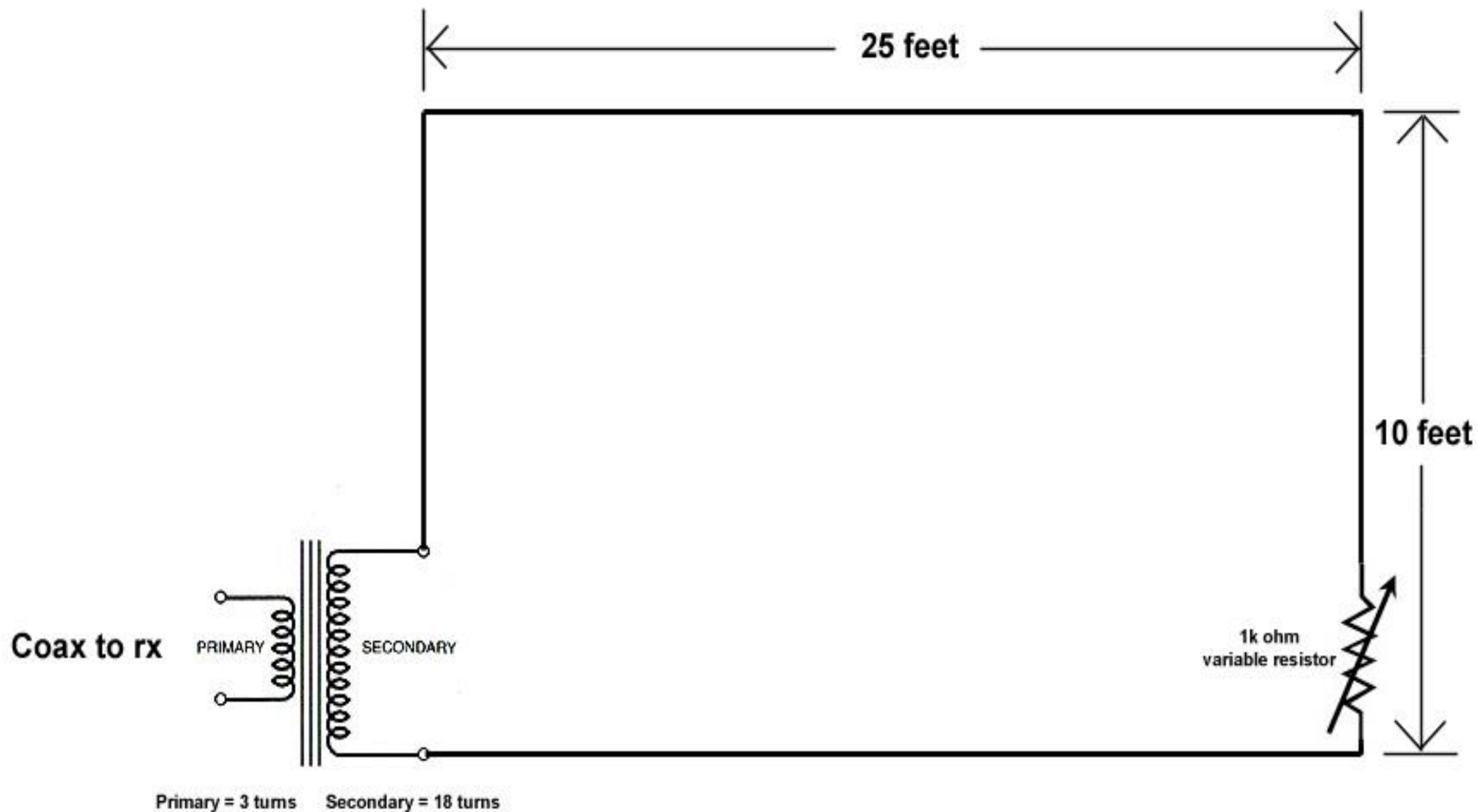
Päätevastus 820 ohmia

Koaksiaalikaapelin impedanssi 50 ohmia

$820/50 = 16,4$ ja koska "tiedämme" että:

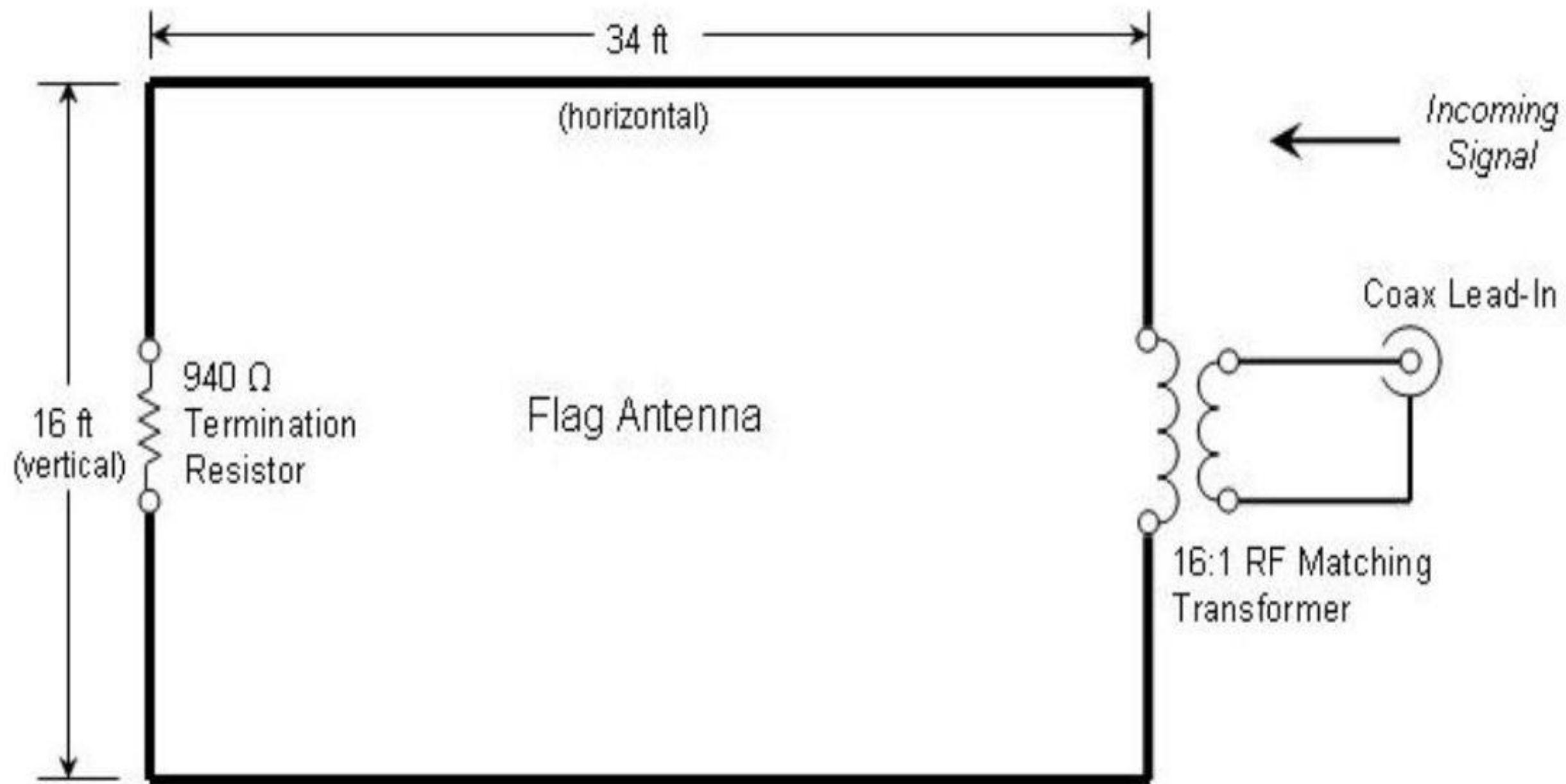
$\sqrt{16,4} = 4,05$, on sovitusmuuntajan kierrosten suhde 4:1

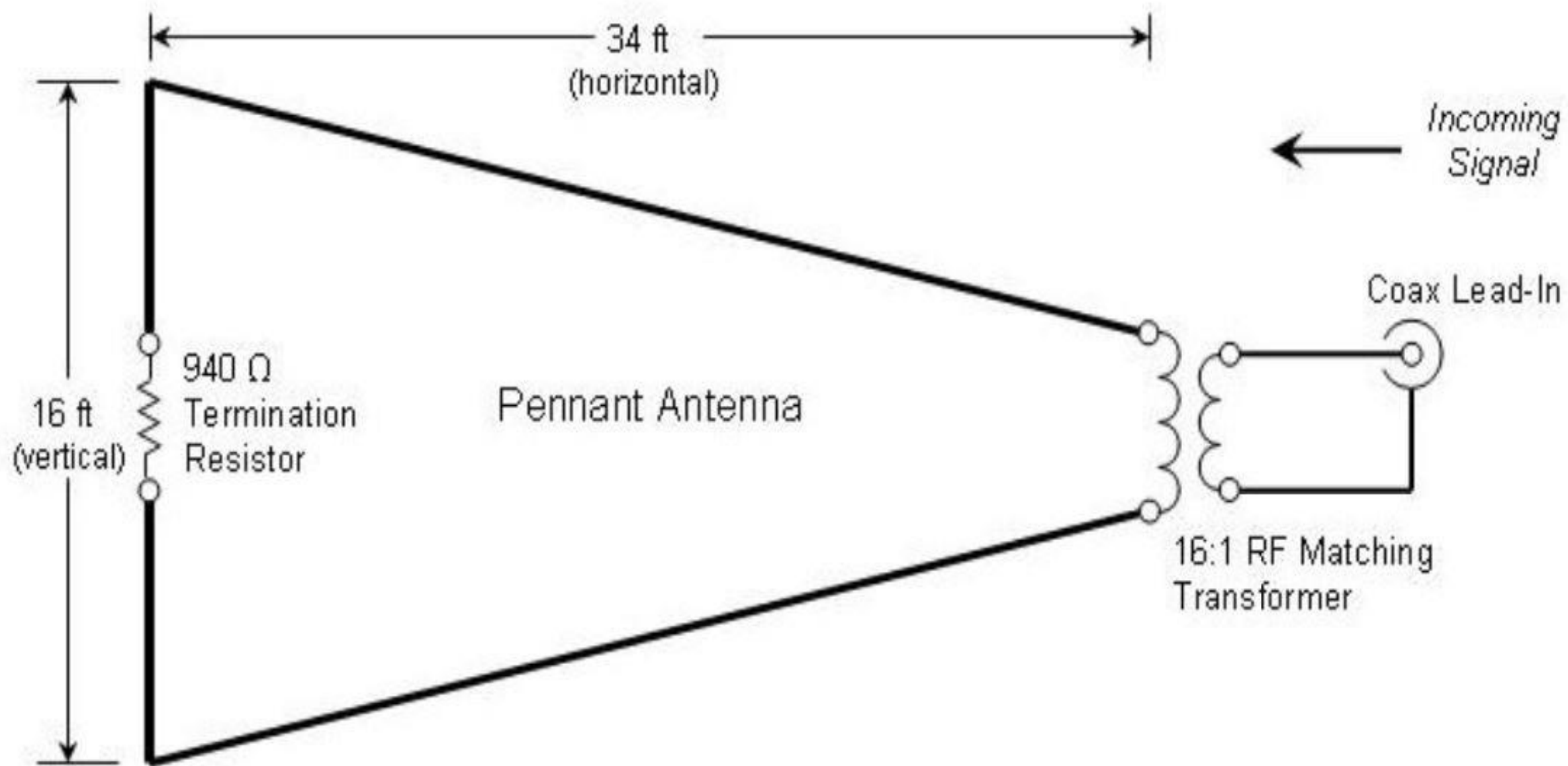
5. FLAG



A Flag Antenna For Medium Wave

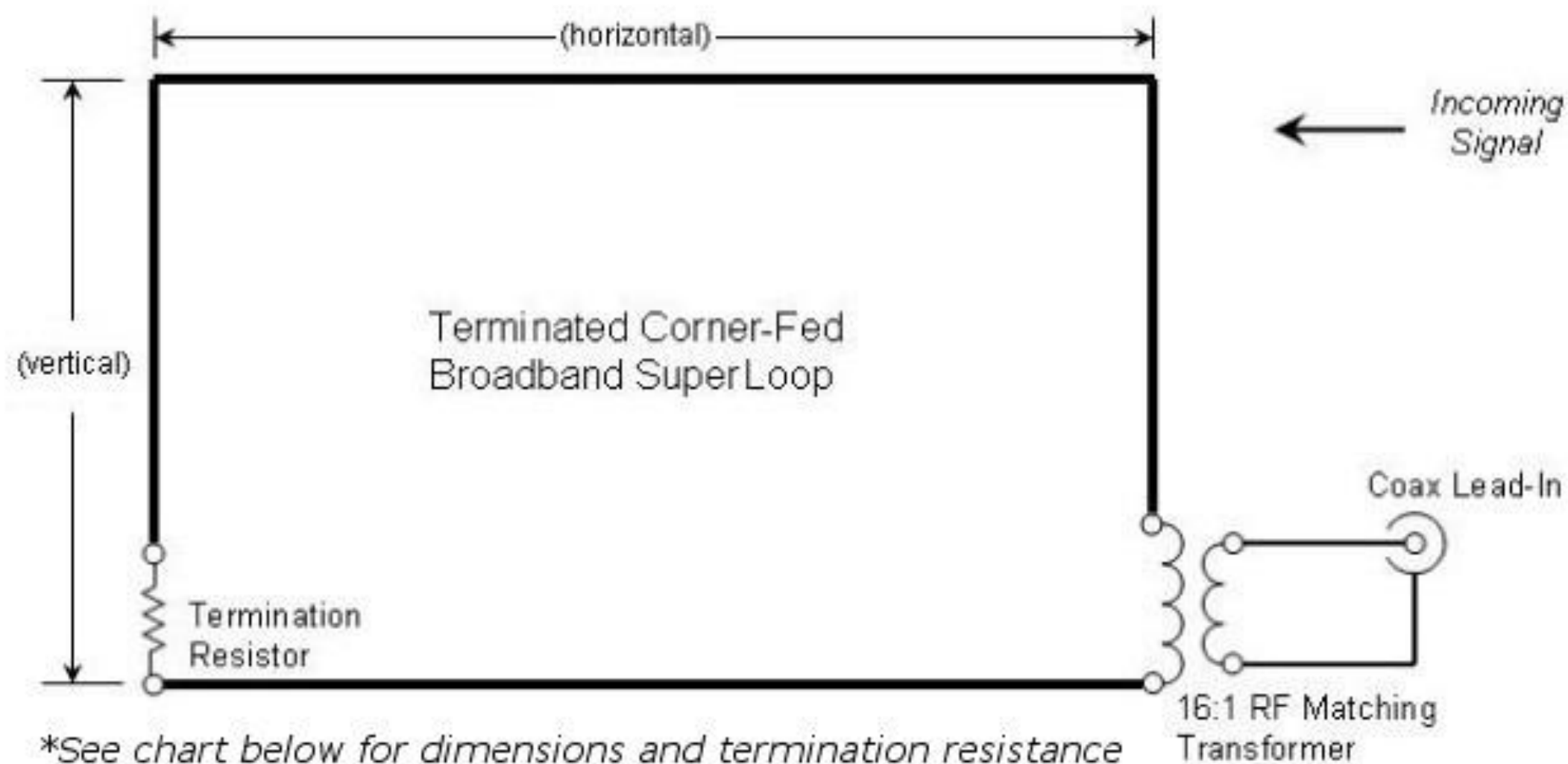
Call this an EWE antenna if you like. The main difference is the bottom of the vertical legs are joined together, as opposed to being grounded as with the ewe. This antenna is fed at the bottom of one of the legs, though some designs are fed in the centre. There are various designs with slightly different characteristics, so there may be minor discrepancies here and there as to exactly what a flag (or ewe) antenna is. The design above still makes a superb DX antenna for the medium and long wave bands combined. /John Faulkner





6. SUPERLOOP

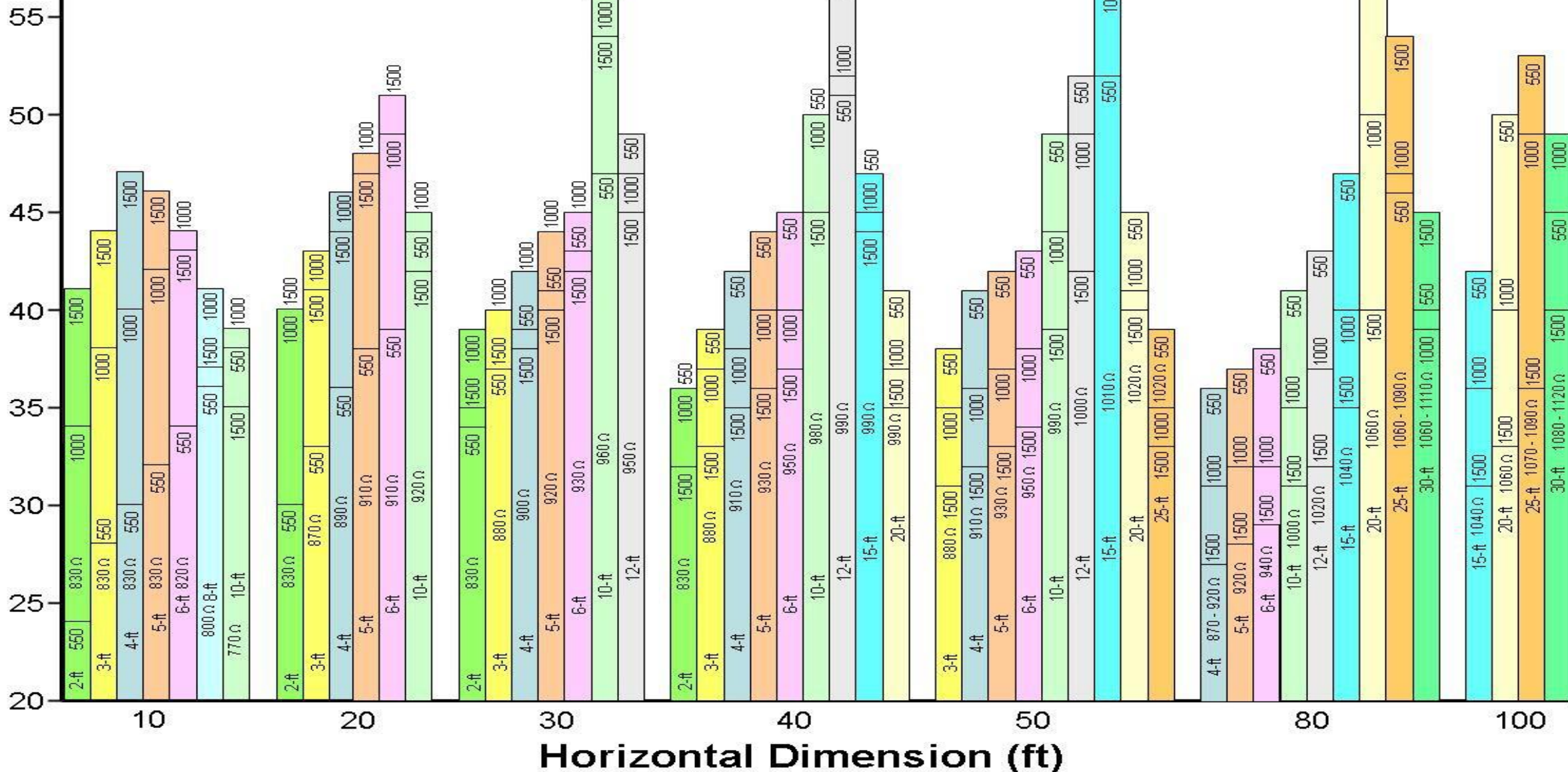
© BRUCE CONTI

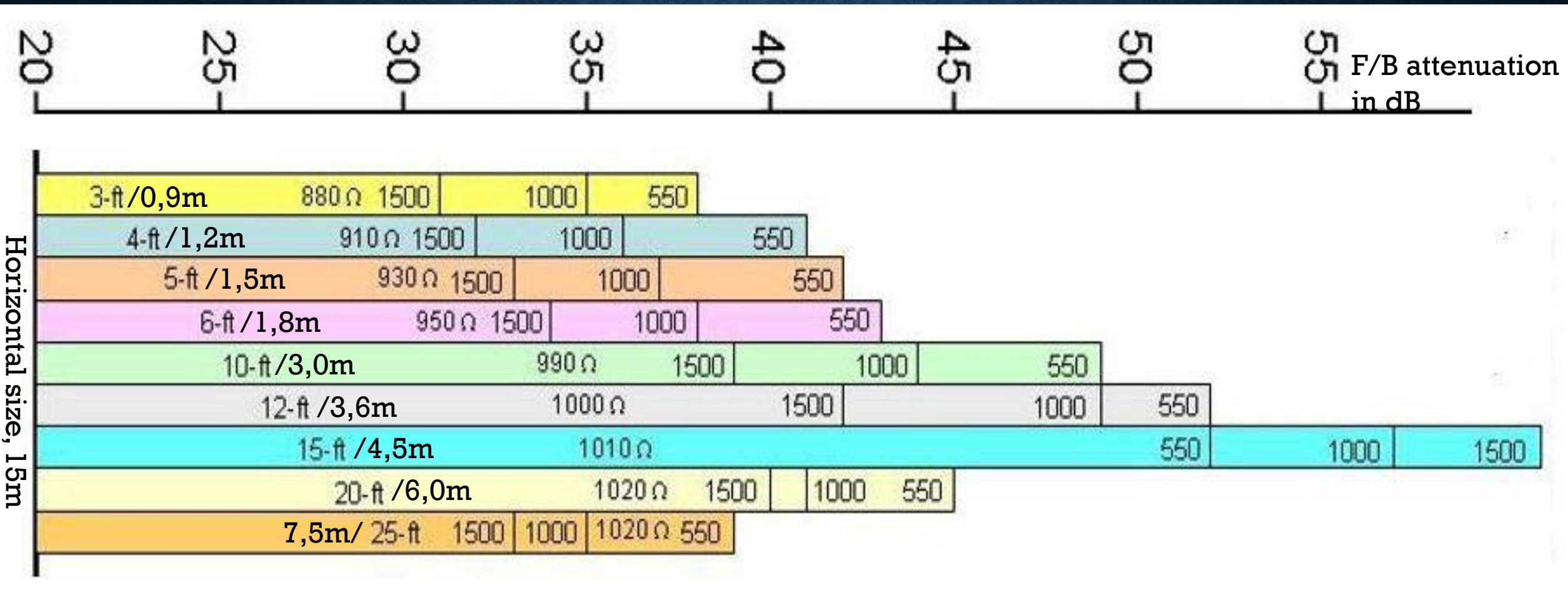


TERMINATED SUPERLOOP ANTENNA DATA

Maximum backside (front-to-back) null depth vs. horizontal dimension for 550, 1000, and 1500 kHz at vertical dimensions 2 - 30 ft and termination resistance 770-1120 +/- 10 Ω typ.

Backside Null Depth (dB)





7. PREAMPLIFIER?

Tarvitsenko esi/etuvahvistinta?

Kyllä ja ei. Joskus siitä on selvästi apua ja joskus taas ei huomaa mitään eroa signaalin luettavuudessa koska pohjakohina nousee myös.

Suosittelavia malleja (jos kukkaro kestää)

- ☐ DX-Engineering RPA-2
- ☐ Hinta: \$159,99

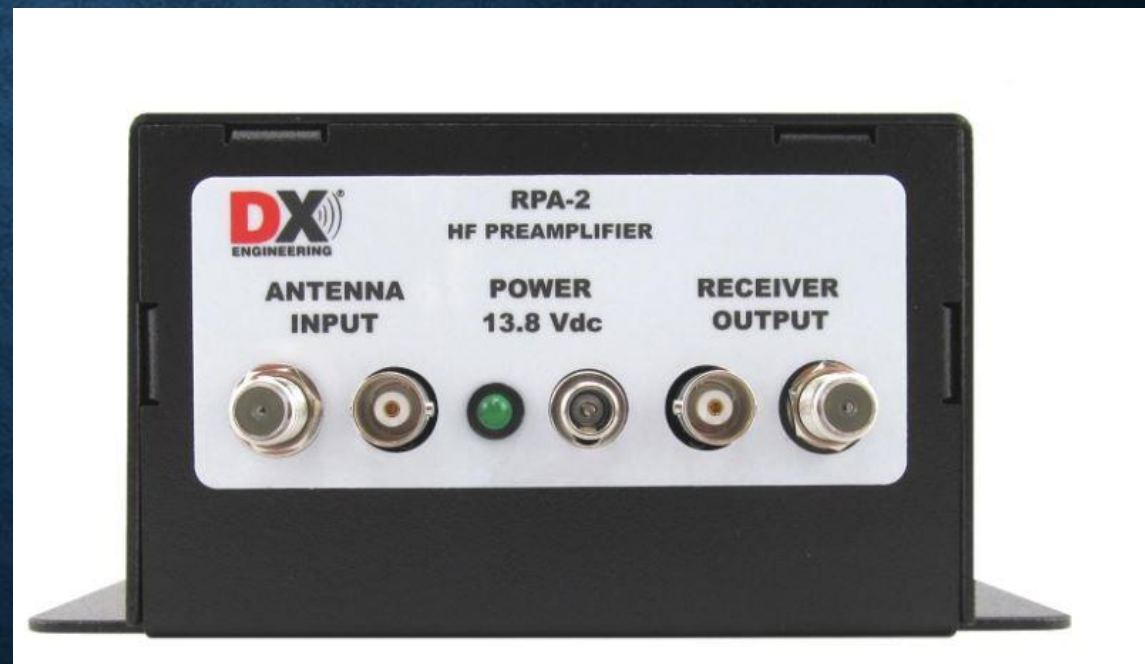
Receive Frequency Range:300 kHz - 35 MHz

Preamplifier Gain:16 dB +/- 1.5 dB

Dynamic Range (IM3) at 500 Hz BW:over 110 dB

Third Order Intercept (IP3):+43 dBm

Noise Figure:3.5 dB



- ❑ DX Engineering Clifton Laboratories Z10046 High-Gain Preamplifiers DXE-Z10046B-PM
- ❑ + DX Engineering Dual Module Chassis DXE-DMC-2

❑ Hinta: \$79,99 + \$109,99, = \$189,98

Receive Frequency Range: 57 kHz - 33 MHz

Preamplifier Gain: 23 dB

Third Order Intercept (IP3): Over 42 dBm

Noise Figure: 3.0 dB

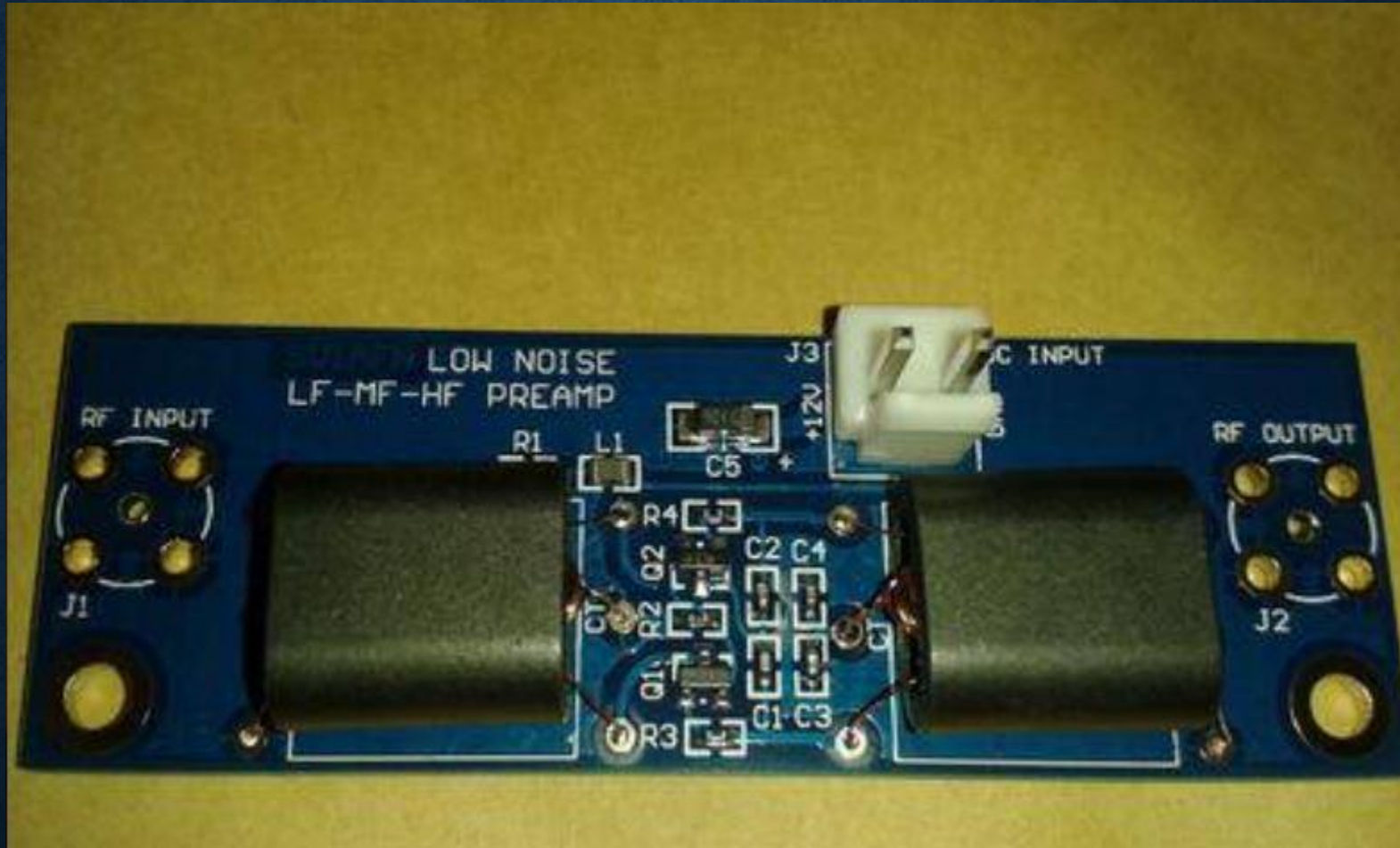


- ❑ **RX preamp BOX with 2N5109** , [rx preamp box \(remoteqth.com\)](http://rxpreampbox.remoteqth.com)
- ❑ **Hinta: 125€, inc. Worldwide shipping**



❑ 2x J310 Push-Pull Low-noise HF pre-Amplifier (30 KHZ - 30 MHZ) Built & Tested

❑ Hinta: 33,70€



[2x J310 Push-Pull Low-noise HF pre-Amplifier \(30 KHZ - 30 MHZ\) Built & Tested - svlafn.com](http://svlafn.com)

Hyödyllistä lukemista.:

[K9AY, the antenna for serious MW DX-ing -- antenna special on hard-core-dx.com \(hard-core-dx.com\)](#)

[ewe.pdf \(hard-core-dx.com\)](#)

[EWE Antenna review :: DXing.info](#)

[More about the EWE Antenna And the importance of the “Terminating Resistor” | radiodx.com](#)

[Super KAZ antenna | ScottishDxer \(wordpress.com\)](#)

[kaztests.PDF \(qsl.net\)](#)

[G1VVP - Skegness DX: A Flag Antenna For Medium Wave](#)

[Choose the right core material -- antenna special on hard-core-dx.com \(hard-core-dx.com\)](#)

Credits:

Floyd Koontz

Guy Atkins

John Bryant

Neil Kazaross

Bjarne Melde

Ken Baird

Gary Breed

Makis Katsouris and all the rest not mentioned here.



KIITOS!
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