JSX UglyBalun (HF bands 1:1 coax RF choke)

by N6JSX/8 06/2013

The UglyBalun is not a true transforming balun but a 1:1 coax decoupling RF Choke. Many HAM Commercial antennas require an RF choke like Cushcraft A3/A4/AW3S. I've added a JSX-UB to my Hy-Gain 18AVT HF vertical getting great results. This decoupling choke 'KC7AVA UglyBalun' invention is very easy to make and per the article in HamUniverse.com can be configured to connect to coax or ladder-line feeds. More words are not needed the pictures/drawings speak for themselves - simplicity!

Coil electrical data:

26 coils within 7"

Resonant Fo: 0.948 MHz

Coil Q: 216

Resonant impedance: 198 KΩ Trap inductance: 154.1 uH Shunt capacitance: 182.7 pfd

Credits: "Building Coaxial Cable Traps" by W8WWV & 'COAXTRAP.exe' by G4FGQ

Construction items:

26 coax (RG-8x) coil turns (~33' of RG-8x) w/PL259 1/4" eve-ring crimp 14-16AWG wire (blue) 2ea T&B #14RB-14X Hot glue gun & electrical tape 4"x 12" PVC SO-239 barrel ~1.25" long w/nuts Brackets 2ea (as picture) Lowes '2x4 Simpson Strong-Tie model RTU2' 1"x1/4-20 bolts 2ea Radiator clamps 2ea



JSX-UB mounted to my fence post tuning mast

Page 1 of 3 © 2013, N6JSX/8 Sidney OH All right reserved – only non-profits may copy or reprint.

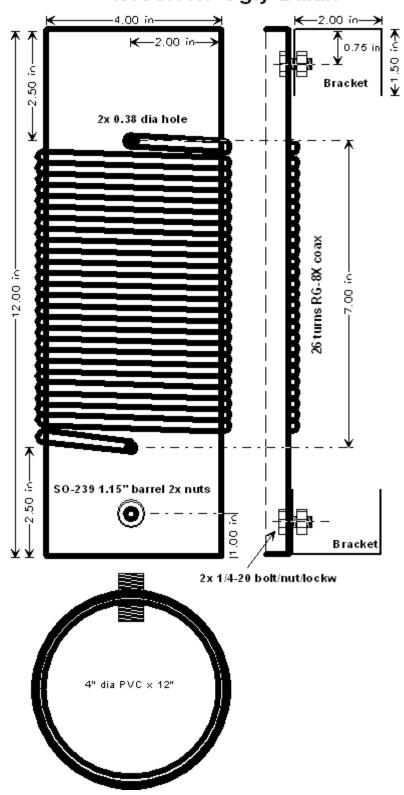






Page 2 of 3 © 2013, N6JSX/8 Sidney OH All right reserved – only non-profits may copy or reprint.

N6JSX HF Ugly-Balun



Page 3 of 3 © 2013, N6JSX/8 Sidney OH All right reserved – only non-profits may copy or reprint.