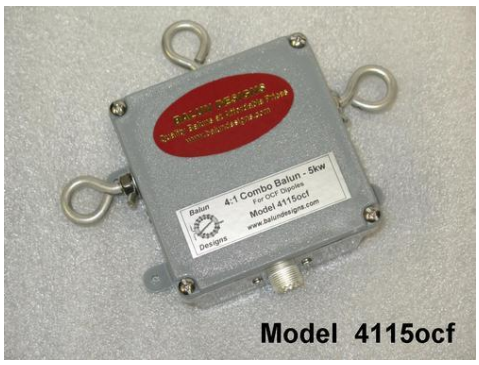
Product Specification Balun 4115ocf



TECHNICAL DATA

This is the successor to our very popular 4113ocf combo balun and an instance where you really do get the best of the both worlds. By winding individual cores as 1:1 choke baluns and then cross connecting them to make a 4:1 current balun, we achieved the ultimate balun combination to build a ***multiband Off Center Fed dipole*** around.

If you look closely at the pictures, you can see the individually wound cores that form the combo balun. Each core has **10 individual turns** to generate maximum choking impedance and produce **near perfect transformation**. The black polymer spacer is used to insure proper separation of the individual baluns at all times. The balun also ***includes*** the **Top Hanger Eyebolt** so you have a complete package for your antenna project.

This new design offers several advantages over the previous Model 4113ocf:

Choking impedance that peaks at over **5000 ohms for each conductor**

Power handling of **5kw**

Individually wound core for **each conductor**

Please review the test scans below to appreciate the excellent specs this balun offers.

All testing done with an AIM-4170 network analyzer

Design Features:

Special mix toroids with low permeability provides ***broadband coverage from 1-54MHz****.*

The design has excellent low frequency response which makes it ***very efficient (99%)****. Input impedance remains essentially flat across the full HF frequency spectrum.*

Individually wound cores *with windings of 14 gauge* ***Thermaleze wire inserted in Teflon tubes.*** *This is* ***NOT*** *the enameled type (Formvar) used by less expensive competitors. It is coated with a polyimide covering rated at a minimum of 2kv breakdown voltage.* ***Overall breakdown voltage is 10kv*** *created by the combination of Thermaleze wire and Teflon tubing.*

Insertion loss is < 0.1db

SO-239 connectors are ***silver plated with teflon insulation****.*

All hardware is Stainless Steel. Eyebolts are 1/4"

N connectors *and* ***alternate mounting options*** *available in the* ***accessories*** *section.*

Because of the high efficiency of this balun, it ***will not heat up or saturate*** *like the cheaper current baluns using ferrite rods, beads or small cores.*

The balun is installed in a weatherproof 4" X 4" X 2" NEMA Box with only small weep holes at the base to allow escape of condensation. Balun should always be mounted with the SO-239 in the down position.
