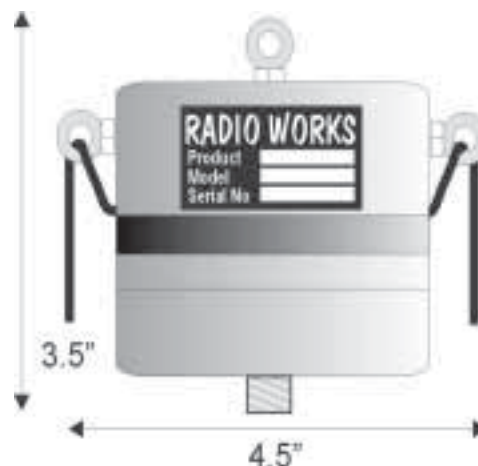


A 4:1 Current balun

RemoteBalun™

Balun Type	Current
Ratio	4:1
Operating Bandwidth	160 - 10 m
Power Loss, dB	<0.8 dB nominal
Saturation Resistant?	Very Good
Internal xmsn line Z	40-ohms equivalent
Core type	HF ferrite
SSB/CW Power @ 3.5 MHz*	1.5 kW *
Output Balance	Excellent
Load Variation Tolerance	Excellent
Recommended Coax	Low-loss types
Recommended Coax Length	<16 feet
Input Connector	SO-239
Output Connector	Wire
Size	3.5" x 3.5"



** Power must be derated under some conditions.
CW/SSB duty-cycle only. Not rated for AM, RTTY, and
other high duty-cycle modes.*

Applications: Open-wire to coax interface,
external to the operating position.
Use with tuner.

The RemoteBalun - A Proven Solution

List Price \$69.95

Special Price \$56.95

Prices and specifications are subject to change without notice.

Still The Best!

The RADIO WORKS brought you the RemoteBalun many years ago, and it was an immediate success. At the time there was no other balun on the market designed specifically for this purpose. In fact, back then, 'Current Baluns' were nearly unknown in Amateur Radio circles. As is always the case, success breeds copies, and soon there were lots of copies of the RemoteBalun (at least in name, but little more).

The original RemoteBalun was good, but we have been engineering baluns for a long time at the RADIO WORKS, and, if you do your homework, you can always come up with improvements and that is just what we've done!

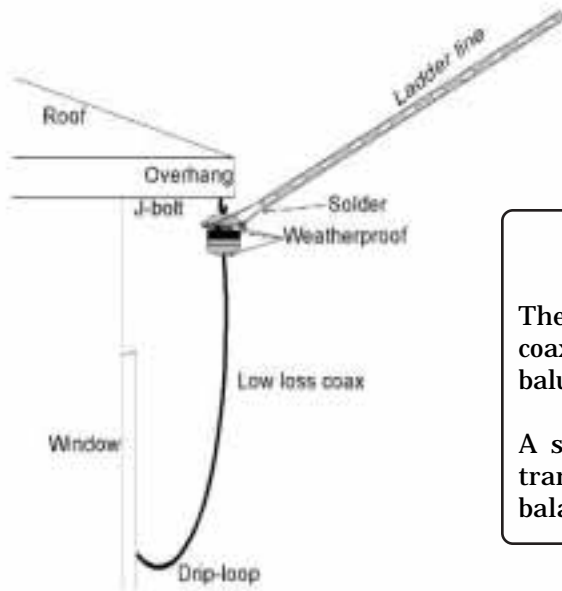
The RemoteBalun

We increased the RemoteBalun's winding inductance without restricting bandwidth. We improved the output balance and lowered losses. We added 160 meters and increased the power rating safety factor.* We increased the high SWR load tolerance. **We made a better RemoteBalun.**

The **RemoteBalun** is based on the B4-2KX, network compensated, Current Balun technology. Special winding techniques insure wide operating bandwidth and high power handling. Massive ferrite cores keep everything under control and the specifications on target. Try the **RemoteBalun**; it's what an "external balun" should be.

A different kind of balun -

The RemoteBalun™



Description

The RemoteBalun™ is the interface between balanced feeders and coaxial cable. The RemoteBalun™ is a rugged 4:1 current-type balun.

A short length of low loss coaxial cable connects your transmatch to the RemoteBalun™. The inconvenience of routing balanced feeders into the radio room is eliminated.

Most modern transmatch circuits are T-networks or similar circuits which do not accommodate balanced transmission lines (feed lines). To provide a balanced output, a transmatch of this type will usually have a built-in balun. Unfortunately, a voltage balun is almost always used. Voltage baluns are inappropriate in this application, because they do not work well with mismatched loads. This is usually the case in this application. Worse, high power, especially in combination with reactive loads, can cause most voltage baluns to saturate, and this can lead to TVI and other RFI problems.

To enhance output balance, a special circuit, we call it the 'X' configuration, uses a twin core, balanced design that produces a balanced output under a wide range of conditions.

Baluns work best at low to moderate impedance levels. Often, a RemoteBalun will be used to drive very high impedance loads. Efficiency suffers when any balun operates under highly mismatched conditions. The power rating of the balun must be down-rated as the efficiency falls.

The RemoteBalun™ has more of everything - higher power rating, a wider load operating range, and a high efficiency design. A new, custom-made transmission line is used in the RemoteBalun™ to achieve this improved level of performance. This means that more power is delivered to the antenna, and ***you have a bigger signal!***

Power Rating - *Important*

Putting a specific value on this specification is not possible because the power rating depends on so many factors. The load impedance and reactance presented to the RemoteBalun, combined with the operating frequency and duty cycles, are interrelated factors which must be taken into account. The 1500 watt power rating assumes normal duty cycle modes (CW and SSB) with the balun operating into a moderate impedances.

This is a Current-type™ balun. Unlike voltage baluns, Current-type baluns maintain output balance over a wide range of loads. This makes them ideal for use at the transition between balanced feeders and unbalanced coax. As with all electrical components, there are limits. The maximum power which may be applied to the Remote Balun depends on the magnitude of the mismatch.

Monitor your SWR on your tuner's SWR meter. Any drift in SWR while operating may indicate that the RemoteBalun™ is overloaded. Reduce power or change the length of the ladder line feeding the antenna until the SWR drift ceases.