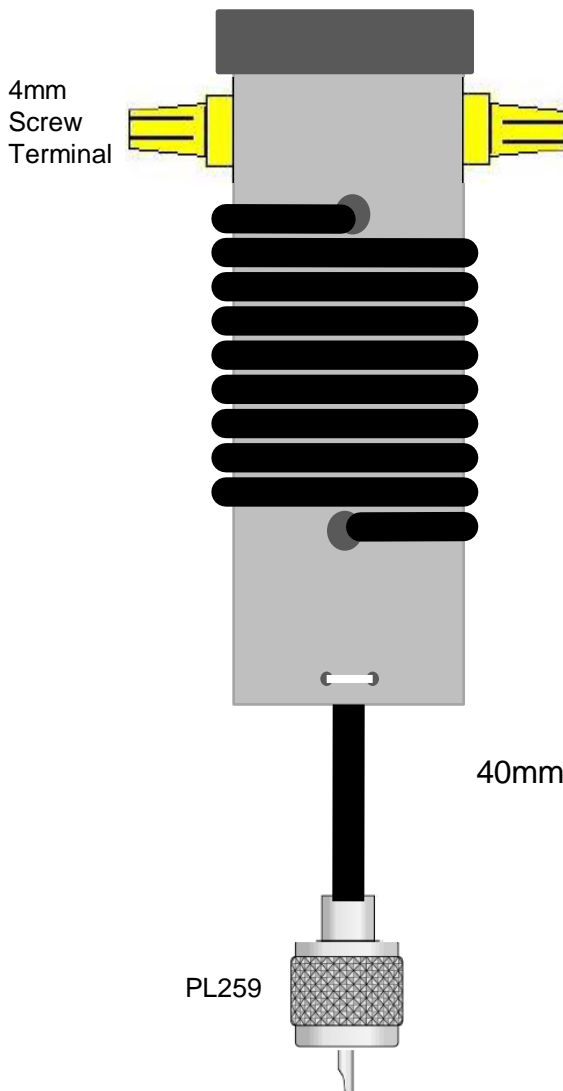


Coax Choke Balun Designs – G80DE

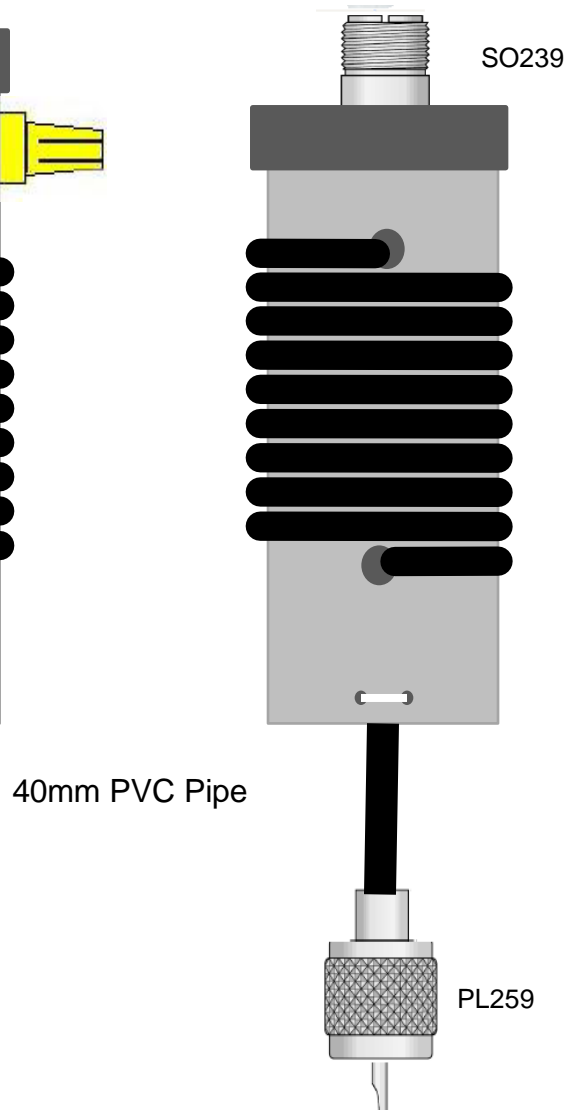
<http://www.rsars.org.uk/ELIBRARY/docsants.htm>



Coax Choke BALUN for Twin Line Feeder



In - Line Coax Choke BALUN for Coaxial Feeder



The two coaxial Choke BALUNS are constructed from 40mm plastic drain pipe using 8-10 turns of Mil Spec RG58 or MIN-8 Coax (approx 2metres)
The bottom end coax is held in place with a small plastic tie-wrap.
A plastic cap from a food jar is used as at the top of the BALUN.

Coax Choke Balun Designs – G8ODE

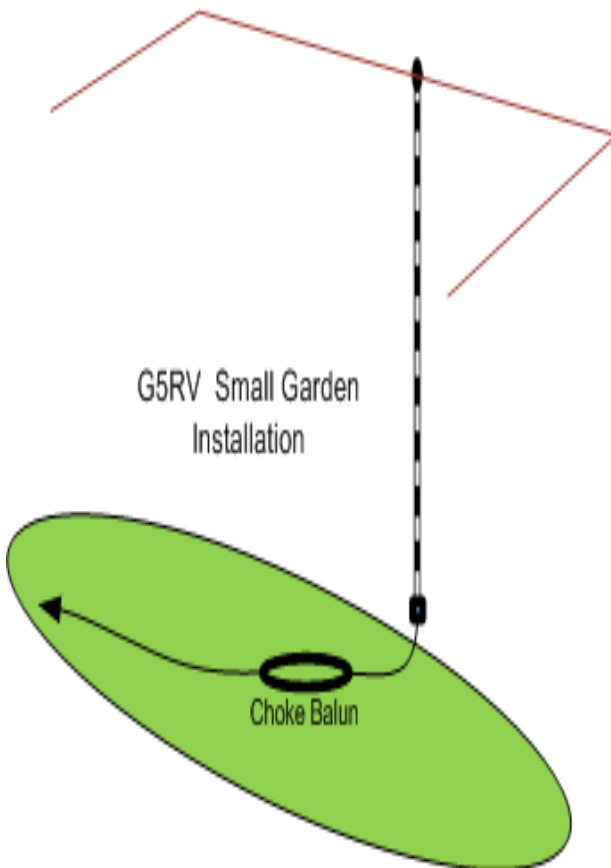
<http://www.rsars.org.uk/ELIBRARY/docsants.htm>



The Coiled Coax BALUN

Not the prettiest BALUN, but just as effective and very easy to construct.

Using about 5-6m (15-18ft) of coax make a several coils 200mm diam (8ins) and tie tightly together using tie-wraps



Test to show the effects of adding a balun in the feeder using a new roughly cut G5RV - i.e. still requires optimising for 20m.

Test Frequency MHz	Autek VA1 measuring SWR ref 50Ω connected direct to 300Ω line	Autek VA1 measuring SWR ref 50Ω connected via 8 turn balun to 300Ω line
3.75	3.33 :1	2.24 :1
7.05	2.71 :1	2.78 :1
10.12	HIGH	12.3 :1
14.15	8.4 :1	3.93 :1
18.12	7.8 :1	2.49 :1
21.2	8.8 :1	5.2 :1

Note: Autek VA1 can only indicate "High" for SWR >15 :1