

## Getting started with the Short – Open - Load

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### Background

The Short-Open-Load (SOL) calibrator is an all in one unit that allows for simple calibration of test equipment that has a SOL routine built in or can be used to manually calibrate equipment. The calibrator as supplied has three BNC male connectors attached to the PCB to allow easy connection to test equipment that uses BNC components. A BNC – SMA adapter is included to allow adapting the calibrator to that coaxial connector.

### Notes for care and use

In use the SOL needs no special attention, follow the calibration routine specified by the equipment being tested, and swap out each connector as required/dictated by the calibration routine.

It is worth being aware that the 'Load' portion has an SMD 50Ω 40GHz capable resistor just above the connector. This component is obviously delicate and care should be attended to ensure the component is not damaged or knocked in storage or general use.

Do not transmit into any of the connectors, the calibrator will not withstand that and will be damaged, as may be the transmitting equipment.

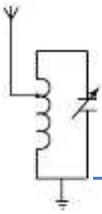
### Capability

Testing has shown that the load is capable of being used to 500 MHz satisfactorily. The load resistor is a high performance type and while the design has been honed to ensure best RF practice, the use of FR4 laminate and commercial grade connectors limits the usable upper frequency to below 1 GHz.



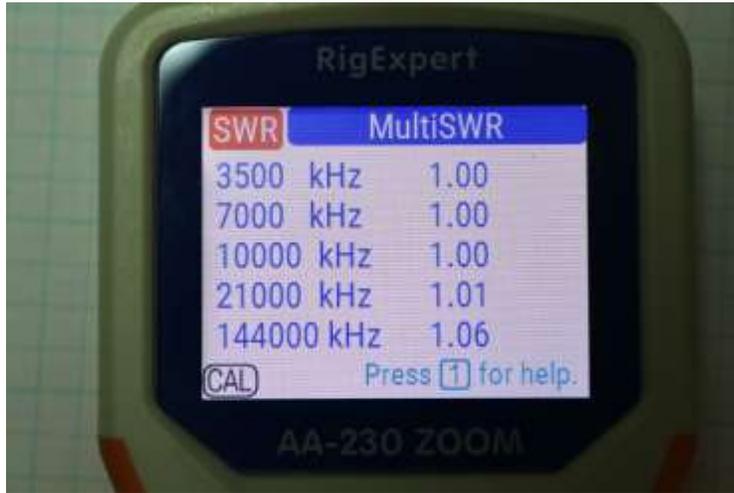
The SOL calibrator. For help or questions in use contact us at:

[steve@electroresales.com](mailto:steve@electroresales.com)



# Electro-Resales

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Typical SWR readings from the SOL on a calibrated AA-230 Zoom by RigExpert.



Typical SWR & Return loss for the SOL on a single frequency.

## LIABILITY DISCLAIMER

A person who constructs or works on electronic equipment may be exposed to hazards, including physical injury, the risk of electric shock or electrocution.. These hazards can result in health problems, injury, or death. Only qualified persons who understand and are willing to bear these risks themselves should attempt the construction of electronic equipment. By purchasing this item, the buyer acknowledges these risks.

There is a risk of electric shock, electrocution, burns, or fires that is inherent in the construction and use of electronic equipment. By purchasing this item, the buyer acknowledges these risks.

IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE including, but not limited to, property damage, personal injury, death or legal expenses. Buyer's recovery from Seller for any claim shall not exceed the purchase price paid by Buyer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. By purchasing this item, BUYER AGREES TO INDEMNIFY, DEFEND AND HOLD SELLER HARMLESS FROM ANY CLAIMS BROUGHT BY ANY PARTY REGARDING ITEMS SUPPLIED BY SELLER AND INCORPORATED INTO THE BUYER'S PRODUCT.