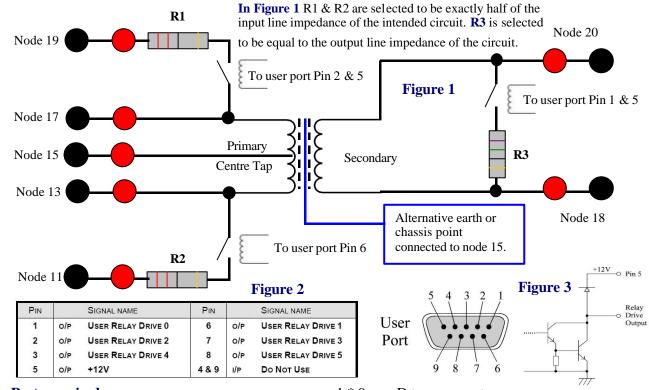


Longitudinal Balance Testing

Longitudinal balance is a term used to measure the CMRR (common mode rejection ration) of a telecom type transformer. **Longitudinal Balance** is a method for testing a transformer's ability to reject unwanted noise signals common to both input terminals with respect to a common point.



Parts required: -

1 * 9-way D type connector.

3 * 10KV standoff relays, VPN: 33 - 004.

3 * ½ or ½Watt resistors matching the circuit line impedance.

When testing Longitudinal Balance (LBAL) nodes 19, 11 and 15 are used with the relays energised (Primary) and nodes 20 and 18 are used again with the relay energised (Secondary) through the OUT test. A program structure example follows: -

- 1. OUT 0, 1 & 2 on.
- Figure 2 shows the pin configuration of the user port and Figure 3 shows the 9-way D and output circuitry.

2. LBAL test.

VPN: 86 - 577/1

- 3. OUT 0.1 & 2 off.
- 4. Other tests such as Inductance (LS), Resistance (DCR) etc using nodes 17, 15, 13, 20 & 18.

If a centre tap is not available node 15 would be connected to an earth or chassis point as shown above.





For more information on this subject please contact your local distributor or contact Voltech directly on sales@voltech.co.uk