

Resonating Inductor

Model : QRI-12

Application:

- Resonating Inductor can be used with High Voltage Power Source for High Voltage Breakdown Test , Capacitance and Tan Delta measurements at High Voltage of

- * HT / LT Motors
- * HV Capacitors
- * Generators
- * Power Cables

Features

- Spot selective Inductor
- Current Rating : up to 4 Amps max.
- Rated Voltage : 6.6KV, 12KV, 15KV.
- Selection chart directly printed on Equipment
- Trolley mounted
- Interlock protection for HV window



It is well known fact that a parallel L/C circuit has very high impedance at a particular frequency called resonating frequency ($\omega = 1/\sqrt{LC}$).

At this frequency the system draws minimum current form the source. This fact is normally used in correcting the lagging power factor due to heavy inductive loads. Similarly the leading power factor drawn by capacitance loads can be corrected by connecting inductor in parallel.

The same phenomenon is used to extend the current capacity of the power source used for Capacitive loads. Ideally by suitable selection of inductor the power supply capacity can be increased by forty folds or more but practically because of system losses a ten fold increase is easily achieve

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