

# In-Line Circuit Components

**Lengthening Inductor** (L1/L2) lengths applies an even higher **Voltage Potential** (66/67) across **Resonant Capacitor** (140 -170) (ER) since **Inductance Reactance** "Stores" Energy and, is expressed by:

(Eq 19)

$$W_a = \frac{L I^2}{Z}$$

Where,

( $W_a$ ) is the energy in **Joules (Watt-seconds)**; (L) is the **Inductance in Henries**; and (I) is the **current in amperes**.

**Inductance Reactance** directly determines "**Stored**" Energy ( $W_a$ ) which is controlled by input **Voltage Potential** attenuated or varied by way of **Voltage Amplitude** ( $V_o \times V_a \times V_b - V_f \times V_g \times V_n$ ) of Figure (7-13) and/or **Gated Pulse-Frequency** (49a xxx 49n - T3 - 49a xxx 49n), or both.

**Inductance Reactance** performs several functions simultaneously or to given stimuli:

- increases applied voltage amplitude ( $V_o - V_n$ )
- doubles input frequency (64a \* 64b) when 50% Duty Cycle Pulse ( $T1 = T2$ ) is inputted
- effectuates "Step Charging Effect" (680) of Figure (7-7) when Pulse off-time ( $T2$ ) is less than Pulse on-time ( $T1$ )

... determining **voltage swing** from **highest voltage level** ( $V_n$ ) to **volts switch-off point** ( $V_{ff}$ ), and establishing **Impedance** (FL) which minimizes heat loss of electrical input power (49) by impairing electron movement.

**Inductor** (L1) acts and performs in like manner to **Inductor** (L2) since both **Inductor** (L1/L2) are physically the same size and shape.

**Thermal Explosive Energy-Yield** (gtnt) (16a xxx 16n) instantly produced from water (85) is determined by:

- **Voltage Amplitude** ( xxx Vn)
- **Duty Cycle of Pulse Train** (T1 - T2a xxx T1 - T2n)
- **Gated Pulse-Frequency** of applied **Voltage Potential** (49a xxx 49n - T3 - 49a xxx 49n)
- **Inductor** (L1/L2) length
- **Secondary Pickup Coil** (523) Length (FL3a xxx FL3n)
- dielectric gap-spacing (Cp)
- or any combination thereof.

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