

# 8-3 - Electrical Voltage-Pulse Wave-Transmission

**Electrical Voltage-Pulse Wave-Transmission** (583a xxx 583n), now formed, occurs along **Electrical Conductance Zone** (587) since applied **Electrical Pulse Voltage amplitude** ( $V_o$  - 64a - 64b- 64c -  $V_n$ ) is time responsive ( $T1/T2a$  -  $T3$  -  $T1/T2n$ ) to incoming gated **Voltage Pulse Frequency** (49a xxx - 1'3 - xxx 49n).

Each Voltage Pulse duration **time-period** ( $T1$  on time) from start to finish is directly related to applied **Voltage-Pulse Amplitude** ( $V_o$  xxx  $V_n$ ) and reoccurring **Voltage Pulse Frequency** (49a xxx 49n) forming "**Unipolar Voltage Pulse-Wave**" (583) from **zero voltage ground state** ( $V_o$ ) to a predetermined **Voltage Level** ( xxx 64 x - 64y - 64z -  $V_n$ ) on the leading edge of the **Voltage Pulse-Wave ( $V_{pa}$ )** and, then, reversing voltage up swing to drop on the trailing edge ( **$V_{pb}$** ), completing **Voltage-wave** (583).

The newly established **leading voltage edge ( $V_{pa}$ )** and **trailing voltage edge ( $V_{pb}$ )** being uniform in shape/configuration since both **Resonant Charging Chokes** (56/Z2 - 62/Z3) resistive values are the same (*Typically 11.6 k $\Omega$  each*) and **incoming signal** (49a xxx 49n) is electrically linked with **Water-Gap Capacitor ( $C_p$ )** of Figure (7-8) having dielectric liquid of **Water** (85) there between.

Figure (7-8)

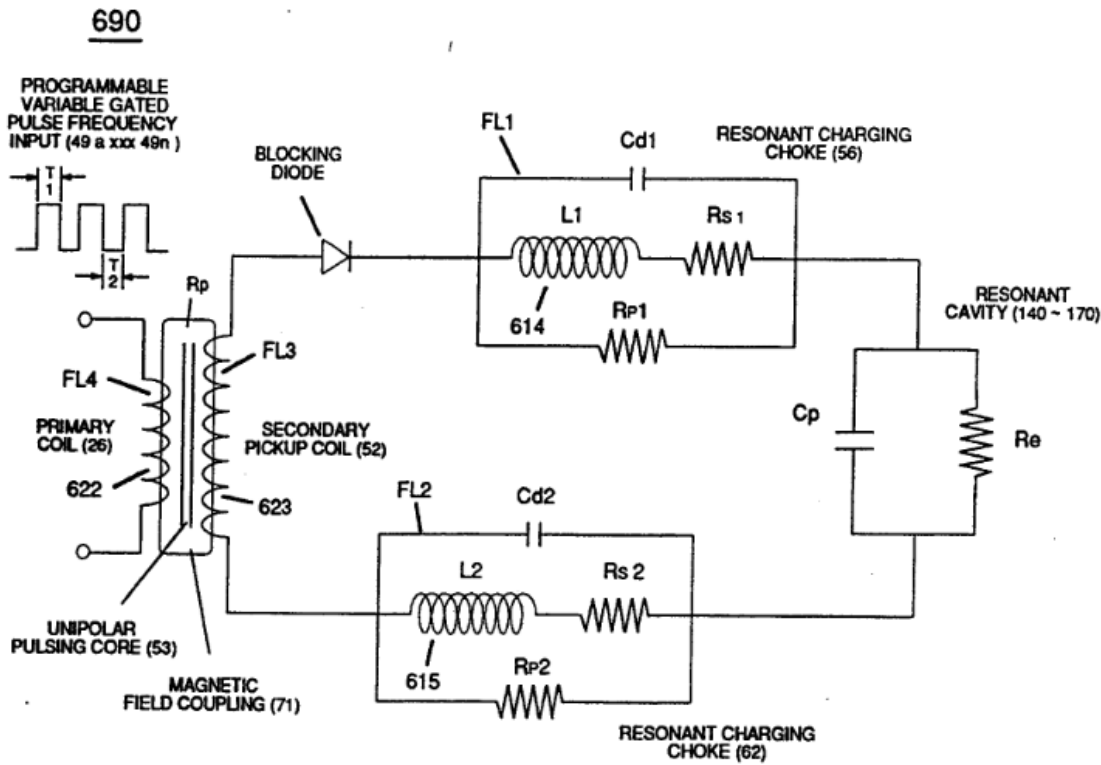


FIGURE 7-8: VIC MATRIX CIRCUIT

Thereby, preventing coil-ringing during each pulse off-time ...allowing **Electron Bounce Phenomenon (EbP)** to occur without amp influxing within **VIC Matrix Circuit (690)** of Figure (7-8) as so governed by **Circuit Resistance Equations** (Eq. 9) which, inactivated electrical-state, allows **positive Voltage Pulse-Wave (583)** to be duplicated in succession to form **Voltage Pulse Train (66 - 583a xxx 583n)**, as illustrated in (770) of Figure (8-1).

**Circuit Resistance Equations** (Eq. 9):

$$Z = R_I + Z_2 + Z_3 + R_E$$



(631) of Figure (7-9)

