Parallel Resonant Converter

PRC Tank Input Impedance
PRC Tank

LCC
Tank Summary (1/2)
Tank Summary (2/2)

Series Resonant Tank – Subharmonic Modes
Subharmonic Modes - High Q

Subharmonic Modes – Low Q
SRC Control Plane

\[ M = \frac{V}{V_g} \]

\[ F = \frac{f_s}{f_0} \]

SRC Mode Boundaries

- \( k = 1\) DCM
- \( k = 2\) DCM
- \( k = 3\) DCM
- \( k = 4\) DCM
- \( k = 3\) CCM
- \( k = 2\) CCM
- \( k = 0\) CCM
Wireless Power Transfer

Mobile Device WPT
EV WPT

Class E Topologies

Class E PA  Coupling coils  Class E rectifier