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series resonant converter and parallel resonant converter: narrow frequency variation over wide load and input variation and Zero Voltage Switching (ZVS) of the switches for entire load range. This paper presents an analysis and reviews practical design considerations for the LLC-type resonant converter.

Design Considerations for an LLC Resonant Converter

www.fairchildsemi.com Design Considerations for an LLC Resonant Converter Hangseok Choi Power Conversion Team

Design Considerations for an LLC Resonant Converter

Design considerations for a Half-Bridge LLC resonant converter. 2 Agenda • Why an HB LLC converter • Configurations of the HB LLC converter and a resonant tank • Operating states of the HB LLC • HB LLC converter modeling and gain characteristics • Primary currents and resonant cap dimensioning

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