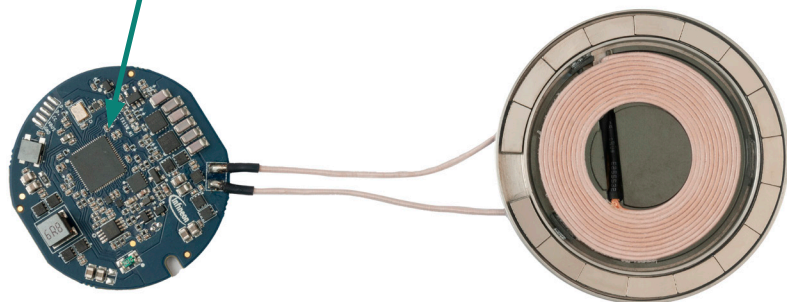
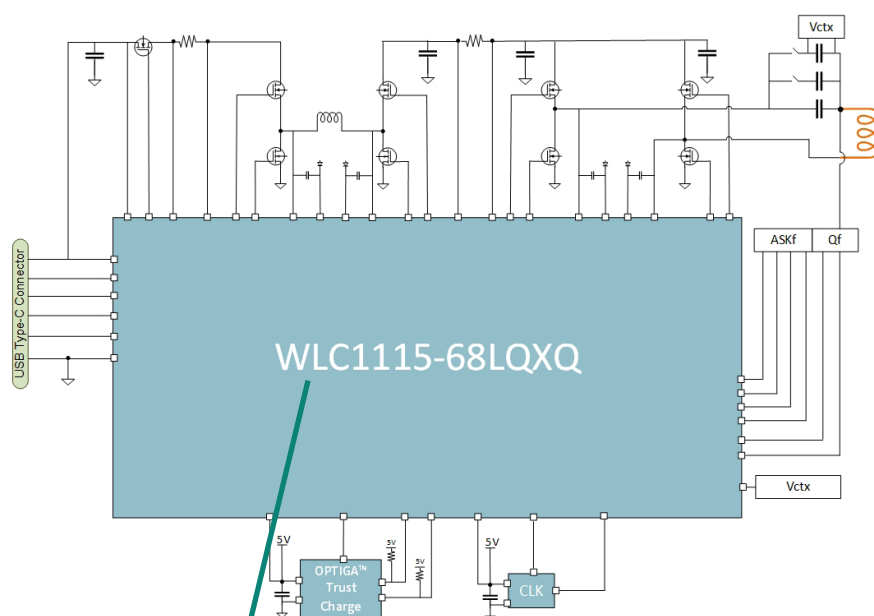


REF_WLC_TX15W_M1

具有 Qi2 功能的外形尺寸优化发射器参考板

REF_WLC_TX15W_M1 是一款高度集成的无线充电发射器解决方案,采用英飞凌 WLC1 控制器,它的参考设计套件展示了英飞凌 WLC1115 无线发射控制器的功能。REF_WLC_TX15W_M1 不仅实现了 Qi2 协议,支持使用 Qi2 磁功率曲线 (MPP) 进行 15 W 无线充电,还支持 Qi 基本功率曲线 (BPP),以实现不支持 MPP 的接收器进行 5 W 无线充电。这款 WLC Qi2 MPP 无线电源发射器使用符合 USB PD 2.0 及更高规格的 USB-C 电源适配器供电。

英飞凌的无线充电控制器 (WLC) 提供高度集成且可扩展的平台,有助于通过可配置软件满足合规性和专有充电需求。



主要特点

- Qi v2.0 MPP 发射器
- 输入电压范围: 4.5 V-24 V
- 输出功率: 15 W Qi MPP
- UVLO, OVP, OCP 和 OTP
- 可编程控制器
- 集成 USB-C PD 控制器
- 集成 降压-升压
- 工厂微调传感
- 多路径 ASK 解调器
- 自适应异物检测 (FOD)
- CC 或 I2C 接口
- 68 QFN (8 mm x 8 mm)
- 0.4 mm 工业级间距

潜在应用

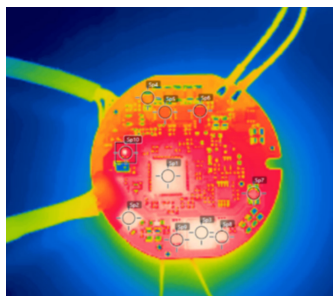
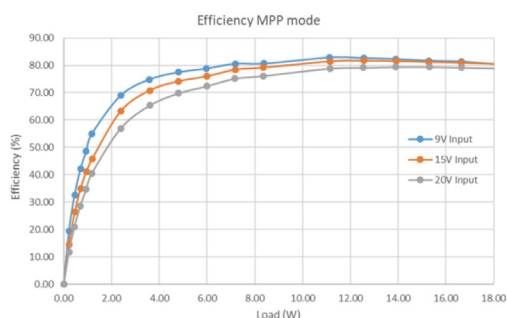
- Qi v2.0 MPP 发射器
- 专有功率传输扩展 (PPDE)



解决方案简介

系统性能

- 终端效率 ~ 82%
- 25°C室内环境下的PCB温度 ~ 53 °C
- 有效充电面积 ~ 196 mm²



主要优势

- WLC1115 可用于 MP
- REF 一站式解决方案
- 外形尺寸优化
- 支持 Qi2的高度集成单芯片发射器
- USB-PD或 宽 DC输入
- 专有协议的可编程功能
- 支持ModusToolbox™

如需详细测试报告, 请联系英飞凌销售人员。立即取样!

关键赋能产品

- 无线充电发射器集成电路 - **WLC1115-68LQXQ**
- **OPTIGA™ Trust Charge** - SLS32AIA020U3 (Qi 认证元件)
- OptiMOS™ 5 - **ISK036N03LM5** (降压-升压, 逆变器场效应晶体管)
- OptiMOS™ 5 - **BSZ146N10LS5** (MPP 谐振电容选择场效应晶体管)
- 30V Dual N-Channel StrongIRFET™ - **IRLHS6376** (ZVS 缓冲器电容选择场效应晶体管)

采用最佳外形尺寸的全套解决方案



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