Overview Of TI Transmitter Solutions

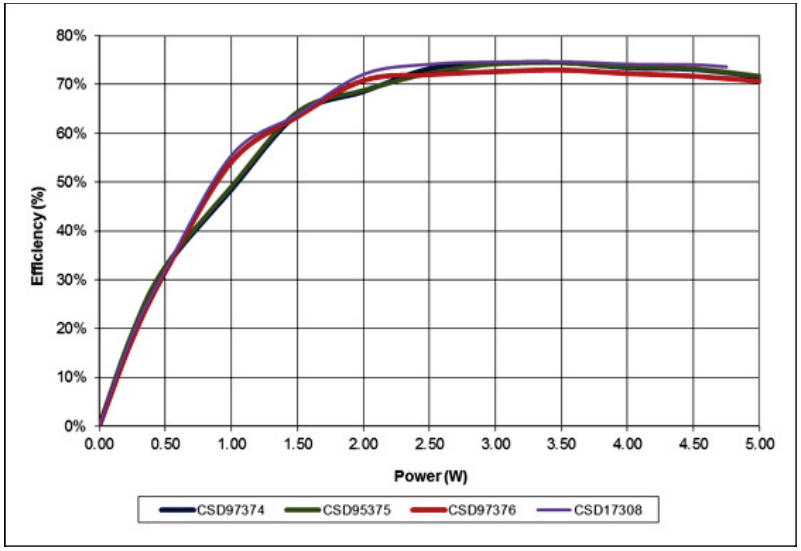
	bq500210	bq500212A	bq500412	bq500414Q
Voltage In	19V	5V	12V	**12V**
Transmitter Type	A1/A10 (1 Coil)	A5/A11 (1 Coil)	A6/A19 (1, 2 or 3 Coil)	**A6/A19/A21 (1,2 or 3 Coil)**
Output Power	5W	5W	5W	**5W**
Full/Half Bridge Drive	HB	FB	HB	**FB**
Dynamic Power Level	No	Yes	Yes	**No**
Charging Area	18mm Diameter	18mm Diameter	70x20mm Diameter	**~70x20mm Diameter**
WPC1.1	No (Contact Factory for 210A)	Yes	Yes	**Yes**
2 Way comms	No	No	No	**No**
Released to Market	Yes (210A Planned)	Yes	Yes	**No (3/14)**
Samples/ EVM	Yes (inc 210A)	Yes	Yes	**Now**

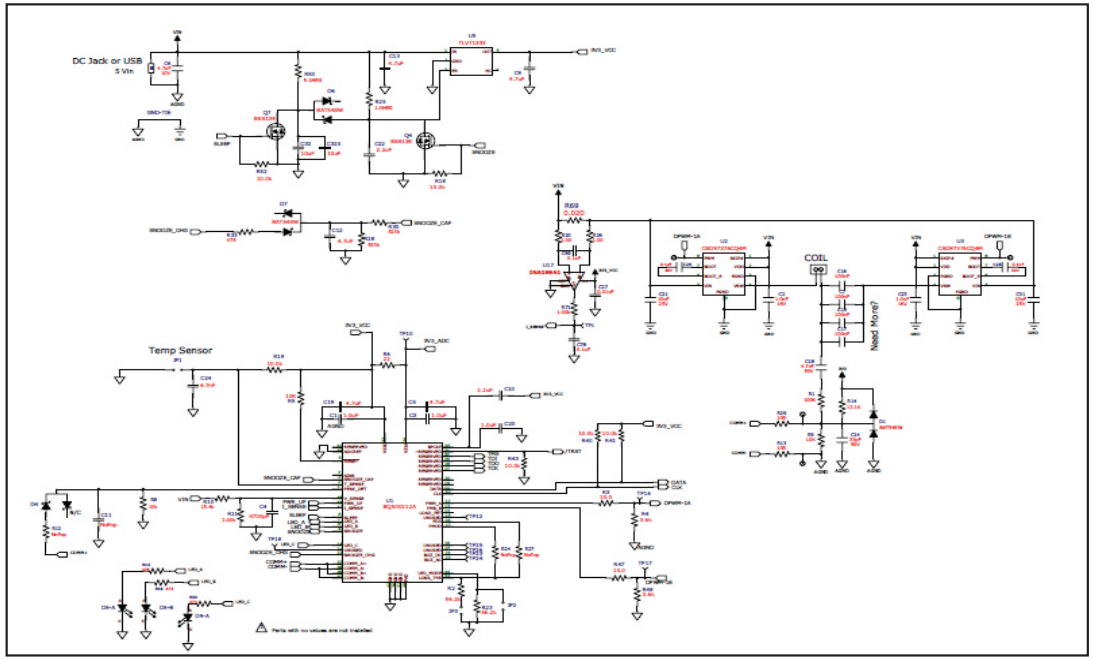
RELEASED

bq500212A
Simplified BOM, 5V Transmitter for A5/A11

Features

- **Simplified BOM reduces** system cost in 5V A5/A11 WPC1.1 Transmitters. Only 5 IC's needed
- **Enhanced "Foreign Object Detection"** scheme simplifies Compliance to WPC1.1
- Patented **"Dynamic Power Limit™"** approach for robust operation from USB port/Low Power adapter
- **Simplified Standby Circuit** ensures compliance w/ CEC-100 Specification
- Supports **Hybrid Cap scheme** w/ X7R/OG Res Caps to reduce System Cost





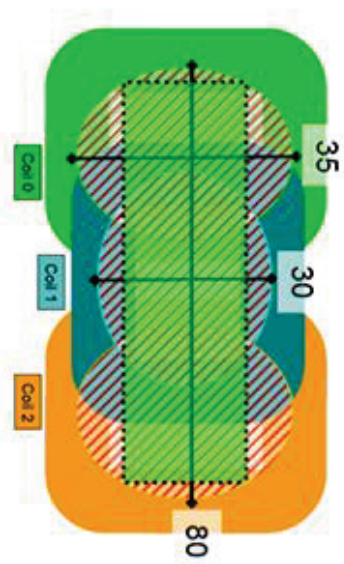
Standby Power	bq500211	bq500211A w/ MSP430	bq500212A
No Rx on Pad	<210mW	<90mW	<100mW
Rx on Pad (Chg Comp)	<210mW	<90mW	<50mW

bq500412

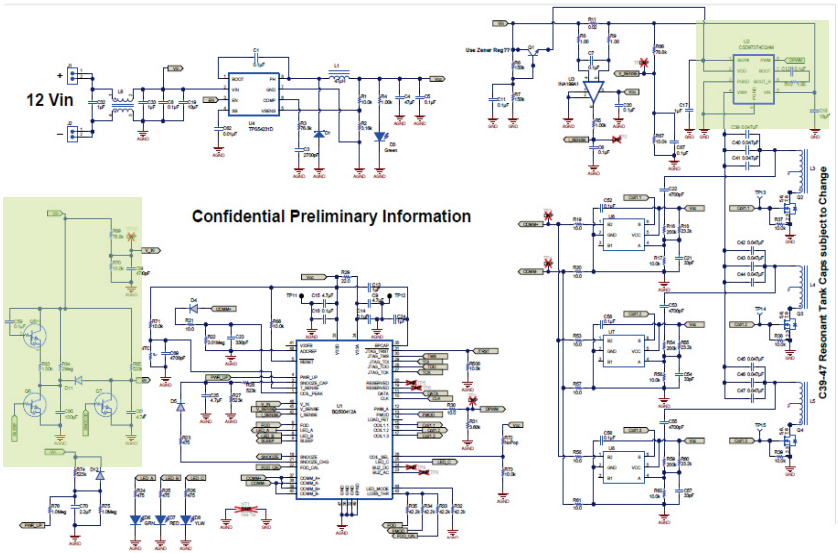
RELEASED

Reduced BOM Transmitter for 1-3Coil A6 Transmitters

Features



- **Freepositioning Wireless Power Transmitter Solution**
- **Supports A6 and A19 Transmitter Types**
  - 12V Input Voltage
  - 1, 2 or 3 Coils
  - Drives one coil at a time for highest efficiency
- **No Holes in Charging Area**
  - Even in transition between coils
- **Simplified BOM**
  - Number of IC's reduced >30%
  - 1 Drive Stage instead of 3
  - No MSP430 Supervisor for CEC Compliance
- **Enhanced "Foreign Object Detection"** scheme simplifies Compliance to WPC1.1
- Implements **"Dynamic Power Limit™"** approach for robust operation from USB port/Low Power adapter, when 5V Boost Converter used



Highlighted Key Features

Dynamic Power Limit™

- Patented *Dynamic Power Limit*™ Function
- Designed to simplify use with USB Port or Low Power Adapter
- bq500212A monitors input rail to ensure Power Supply stays in regulation…..limiting o/p power if required

Sequential Charging

- bq500412 allows for Sequential Sequencing of Multiple Receivers
- Once one RX has finished charging, ETP signal sent
- Transmitter then Pings Each coil
- Power delivered to new Receiver

Wireless Power Transmitters for Automotive Systems

- **Solutions today for "Aftermarket" applications:** **bq500412A**
  - 3 Coil Transmitter Type for Enhanced Spatial Freedom
  - Fully released, and supports latest WPC1.1 Standard
  - 3 Coil solution ensures High System Efficiencies of >70%

- **New Products in Development for "In Car" systems:** **bq500414Q**
  - Q100 version of bq500410A
  - Benefits from same features of High Efficiency and Spatial Freedom
  - Enhanced with access to I2C Interface for System Control/Feedback
  - Sample now, RTM 3Q'14