For DEMO KITs annotated to comply with the Code of Federal Regulations, Title 47, Part 15. Operation is subject to the following two conditions: (1) This DEMO KIT may not cause harmful interference, and (2) this DEMO KIT must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

For DEMO KITs annotated as not subject to or compliant with the Code of Federal Regulations, Title 47, Part 15. This DEMO KIT is intended for use as a Demonstration Kit only. The user acknowledges that they may not use the DEMO KIT in any manner that is not in accordance with the terms of the agreement. The user is responsible for ensuring that their use of the DEMO KIT will not result in any property damage, injury or death, even if the DEMO KIT should fail to perform as described or expected.

Certain Instructions. It is important to operate this DEMO KIT within WE’s recommended specifications and environmental considerations per the user guidelines. Exceeding the specified DEMO KIT ratings (including but not limited to input and output voltage, current, power, and environmental ratings) may cause property damage, personal injury or death. If there are questions concerning these ratings please contact a WE field representative prior to connecting interface electronics including input power and output loads. Arrows marked outside of the specified output range may result in overstressed and/or inadequate operation and/or possible permanent damage to the DEMO KIT and/or interface electronics. Please consult the DEMO KIT user’s guide prior to connecting any loads to the DEMO KIT output. In case it is not possible to ascertain, a WE field representative, please be aware that the device(s) of the DEMO KIT may be very warm when touched. As with all electronic equipment, the DEMO KIT should not be exposed to moisture, extreme temperatures, or shock. For equipment installations which are classified as FDA Class II (or similar classification, then you must specifically notify WE of such intent and enter into a separate agreement to Defend, indemnify and hold harmless. You agree to defend, indemnify and hold WE, its Licensors and its representatives harmless from any and all claims, damages, expenses, and liabilities (collectively, “Claims”) arising out of or in connection with any use of the DEMO KIT that is not in accordance with the terms of the agreement. This obligation shall apply regardless of whether Claims arise under law of tort or contract or any other legal theory, and even if the DEMO KIT fails to perform as described or expected.

Safety-Critical or Life-Critical Applications. If you intend to evaluate the components for possible use in safety-critical applications (such as those for which a failure of the WE product would reasonably be expected to cause severe personal injury or death, such as devices which are classified as FDA Class II or similar classifications, then you must specifically notify WE of such intent and enter into a separate Assurance and Indemnity Agreement.

Additional Terms, warnings, restrictions and disclaimers of the Würth Elektronik Wireless Power Demonstration Kit (hereafter defined as DEMO KIT)

As noted in the DEMO KIT Users Guide, this DEMO KIT and/or accompanying hardware may or may not be subject to and compliant with the Code of Federal Regulations, Title 47, Part 15. For DEMO KITs annotated to comply with the Code of Federal Regulations, Title 47, Part 15. Operation is subject to the following two conditions: (1) This DEMO KIT may not cause harmful interference, and (2) this DEMO KIT must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. This DEMO KIT as a Class A digital apparatus complies with Canadian ICES-003. Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment. For DEMO KITs annotated as not subject to or compliant with the Code of Federal Regulations, Title 47, Part 15. This DEMO KIT is intended for use as a Demonstration Kit only. The user acknowledges that they may not use the DEMO KIT in any manner that is not in accordance with the terms of the agreement. The user is responsible for ensuring that their use of the DEMO KIT will not result in any property damage, injury or death, even if the DEMO KIT should fail to perform as described or expected.

You have unique knowledge concerning Federal, State and local regulatory requirements (including but not limited to Food and Drug Administration regulations). If you intend to evaluate the components for possible use in safety-critical applications (such as those for which a failure of the WE product would reasonably be expected to cause severe personal injury or death, such as devices which are classified as FDA Class II or similar classifications, then you must specifically notify WE of such intent and enter into a separate Assurance and Indemnity Agreement.

You acknowledge, represent and agree that:

1. You have unique knowledge concerning Federal, State and local regulatory requirements (including but not limited to Food and Drug Administration regulations), and it is your responsibility to ensure that your use of the DEMO KIT will not result in any property damage, injury or death, even if the DEMO KIT should fail to perform as described or expected.

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1. You have unique knowledge concerning Federal, State and local regulatory requirements (including but not limited to Food and Drug Administration regulations). If you intend to evaluate the components for possible use in safety-critical applications (such as those for which a failure of the WE product would reasonably be expected to cause severe personal injury or death, such as devices which are classified as FDA Class II or similar classifications, then you must specifically notify WE of such intent and enter into a separate Assurance and Indemnity Agreement.

You acknowledge, represent and agree that:

2. You have full and exclusive responsibility to assure the safety and compliance of your DEMO KIT with all such laws and other applicable regulatory requirements, and also to assure the safety of any activities to be conducted by you and/or your employees, affiliates, contractors or designees, using the DEMO KIT. Further you are responsible to assure that any interfaces (electronic and/or mechanical) interconnection between the DEMO KIT and any human body is designed and evaluated to minimize the risk of electrical shock hazard.

3. Since the DEMO KIT is not a completed product, it may not meet all applicable regulatory and safety compliance standards (such as UL, CSA, cUL, CE, Fehm and VDE) which may normally be associated with similar items. You assume full responsibility to determine and/or assure compliance with any such standards and related certifications as may be applicable. You will exercise reasonable safeguards to ensure that your use of the DEMO KIT will not result in any property damage, injury or death, even if the DEMO KIT should fail to perform as described or expected.

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Würth Elektronik offers together with Texas Instruments a wireless power demonstration kit (order code 760308) to demonstrate the advantages of wireless power and to give developers the opportunity to test and integrate a wireless power solution to their application.

The demonstration kit is built according to Wireless Power Consortium (WPC) Qi specification 1.1. The transmitter is a 5 V input design and powers all standard WPC low power 5 W receivers.

There is only one correct possibility to connect the LED module to the receiver.

Take care that the GND pins on the receiver (lower right corner top side) are connected with the female GND connector on the LED module (lower left corner back side).

Demonstration proposals:
1. Put the receiver (with LED module connected) on the coil on the transmitter board.
2. Keep the transmitter board in the demo box (but connect it via power supply to a wall socket) and close the demo box. Put the receiver on the spot (where the transmitter coil is). This simulates the “invisible” use case of integration of the Qi charger into furniture.

More detailed technical descriptions for developers on the Texas Instrument website:

Receiver: bq51013bevm-764
http://www.ti.com/lit/ug/sluua44a/sluua44a.pdf
Transmitter: bq500212AEVM-550