



# Wireless Power Transfer Coils 2021

Transmitter Coils  
Coil Arrays  
Receiver Coils  
Combi Coils



# Application Areas of Wireless Power Transfer



## Medical Technology

Wireless Power Transmission allows easy and aseptic cleaning of medical devices. Hermetically sealed housing is possible with no contact degradation by aggressive solvents.



## Industry

Wireless Power Transmission solves problems in harsh, wet and dirty environments and increase the reliability of the device.



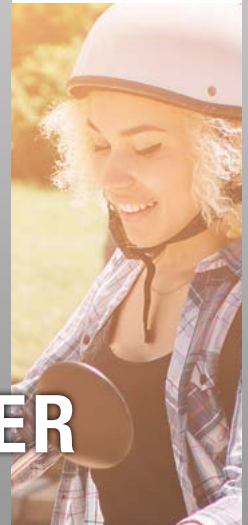
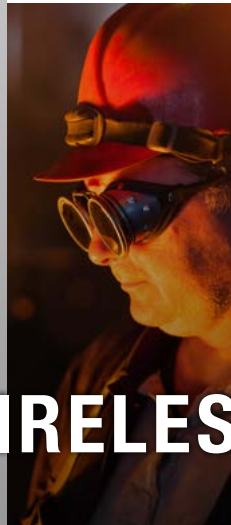
## Furniture

Wireless Power Transmission used in furniture for charging smart phones, tablets and smart watches.



## eMobility

Wireless Power Transmission enables energy transfer for different vehicles and devices in the field of eMobility.



# WIRELESS POWER

# Wireless Power Transmitter Coils, Coil Arrays and Combi Coils

Electrical properties									
	Order Code	L (µH)	R <sub>DC max</sub> (mΩ)	I <sub>DC</sub> (A)	Q	SRF (MHz)	Power Capability (W)*	Size (mm)	Compliance
Coils	760 308 101	24.0	100	6.0	90	6.0	<100	53.3 x 53.3 x 6.0	Qi-A1
	760 308 105	6.3	25	13.0	55	20.0	<200	53.3 x 53.3 x 6.0	Qi-A5
	760 308 110	24.0	100	6.0	180	5.0	<100	53.3 x 53.3 x 6.0	Qi-A10; MP-A1/A7
	760 308 100 110	24.0	100	6.0	180	5.0	<100	∅ 50.0 x 6.0	Qi-A10; MP-A1/A7
	760 308 111	6.3	25	13.0	80	20.0	<200	53.3 x 53.3 x 6.0	Qi-A11; MP-A11
	760 308 100 111	6.3	48	6.0	120	24.0	<100	∅ 50.0 x 6.0	Qi-A11; MP-A11
	760 308 104 113	12.0	72	8.0	120	16.0	<150	59.5 x 52.0 x 4.0	Qi-A13
	760 308 141	10.0	30	9.0	200	11.0	<150	53.3 x 53.3 x 6.5	Qi-A29; MP-A5
	760 308 100 141	10.0	30	9.0	180	11.0	<150	∅ 50.0 x 6.7	Qi-A29; MP-A5
	760 308 101 141	10.0	30	9.0	220	11.0	<150	∅ 50.0 x 5.0	Qi-A29; MP-A5
	760 308 103 102	10.0	55	7.0	130	11.0	<150	53.3 x 53.3 x 4.5	Qi-MP-A2
	760 308 103 146	8.5	56	8.0	140	11.0	<100	55.0 x 47.0 x 4.5	Qi-MP-A8
	760 308 102 142	5.8	12	18.0	100	12.0	<300	53.3 x 53.3 x 6.5	works with Qi Tx IC's
	760 308 100 143	6.0	18	12.0	180	16.0	<200	∅ 50.0 x 6.7	works with Qi Tx IC's
	760 308 102 144	19.5	45	9.5	220	5.0	<200	53.3 x 53.3 x 7.0	works with Qi Tx IC's
	760 308 101 103	6.5	200	3.0	35	20.0	<50	∅ 30.0 x 1.9	works with Qi Tx IC's
	760 308 101 104	6.8	125	2.5	42	20.0	<50	∅ 20.5 x 2.8	works with Qi Tx IC's
	760 308 101 105	3.3	90	3.0	30	20.0	<50	∅ 20.5 x 2.8	works with Qi Tx IC's
	760 308 101 106	2.5	90	2.5	30	38.0	<50	∅ 20.0 x 2.8	works with Qi Tx IC's
	760 308 101 107	24.0	315	2.0	55	7.5	<40	∅ 31.0 x 2.5	works with Qi Tx IC's
	760 308 103 109	10.2	50	9.0	130	11.0	<150	57.0 x 51.0 x 4.2	Qi-MP-A9
	760 308 101 302	5.3	35	8.0	100	27.0	<100	∅ 50.0 x 4.7	works with Qi Tx IC's
	760 308 101 304	6.3	48	8.0	115	16.0	<100	∅ 47.5 x 3.0	Qi-A11; MP-A11
	760 308 102 308	3.0	35	8.5	60	27.0	<150	50.0 x 30.0 x 2.4	works with Qi Tx IC's
760 308 101 310	24.0	110	7.5	155	7.7	<100	∅ 75.0 x 3.3	works with Qi Tx IC's	
760 308 101 311	5.8	14	21.0	220	13.0	<400	∅ 70.0 x 8.5	works with Qi Tx IC's	
760 308 101 410	24.0	100	5.5	170	6.0	<100	∅ 50.0 x 3.1	works with Qi Tx IC's	
760 308 101 411	6.3	48	7.5	110	20.0	<150	∅ 50.0 x 2.8	works with Qi Tx IC's	
Coil Arrays	760 308 106	12.5-11.5-12.5	65	9.0	125	14.0	<150	130.0 x 54.7 x 8.0	Qi-A6
	760 308 103 113	12.5-11.5-12.5	65	9.0	125	14.0	<150	100.0 x 55.0 x 4.5	MP-A13
	760 308 104 119	12.0-11.5	56	8.0	130	12.0	<150	88.5 x 52.5 x 3.5	Qi-A19
	760 308 104 120	6.9-6.4-6.9	45	9.0	100	15.0	<150	91.7 x 50.0 x 5.5	Qi-A28
	760 308 103 148	6.9-6.4	52	8.5	120	15.0	<150	71.0 x 61.0 x 4.0	Qi-A28
	760 308 103 145	11.3-11.3-11.3	83	8.5	150	10.0	<150	109.0 x 56.0 x 5.2	Qi-MP-A6
	760 308 103 147	8.5-7.5-8.5	56	9.0	145	11.0	<150	100.0 x 55.0 x 5.2	Qi-MP-A8
760 308 103 149	10.2-9.8-10.2	55	9.0	135	8.0	<150	106.0 x 57.0 x 4.2	Qi-MP-A9	
Combi Coils	760 308 101 150	6.3/1.2	48/55	7.5/7.0	100/80	27.0/48.0	<100/<100	∅ 65.0 x 3.5	Qi-Airfuel Alliance – NFC
	760 308 101 312	24.0/0.7	90/30	6.0/13.0	125/30	7.0/63.0	<100/<200	∅ 54.0 x 4.0	Qi-Airfuel Alliance – NFC

\* calculated with U<sub>DC</sub> = 20 V

# Wireless Power Receiver Coils and Combi Coils



Electrical properties									
	Order Code	L ( $\mu\text{H}$ )	$R_{\text{DC max}}$ ( $\text{m}\Omega$ )	$I_{\text{AOC}}$ (A)	Q	SRF (MHz)	Power Capability (W)*	Size (mm)	Compliance
Coils	760 308 201	10.0	200	3.50	50	15.0	<60	37.0 x 37.0 x 1.8	works with Qi Rx IC's
	760 308 103 202	12.0	200	3.00	33	13.0	<50	48.0 x 32.0 x 0.96	works with Qi Rx IC's
	760 308 103 203	12.0	360	1.8	21	11.0	<20	48.0 x 32.0 x 0.87	works with Qi Rx IC's
	760 308 103 204	16.7	430	2.00	32	11.0	<30	38.5 x 30.5 x 0.83	works with Qi Rx IC's
	760 308 103 205	11.0	200	2.50	30	16.0	<40	34.0 x 26.5 x 0.89	works with Qi Rx IC's
	760 308 103 206	7.5	380	1.55	16	23.0	<20	28.9 x 15.7 x 0.76	Qi-Airfuel Alliance
	760 308 102 207	8.0	80	5.00	30	16.0	<80	40.0 x 40.0 x 1.2	works with Qi Rx IC's
	760 308 101 208	13.0	500	0.80	17	26.0	<15	$\emptyset$ 10.3 x 1.68	works with Qi Rx IC's
	760 308 101 208A	18.0	650	0.70	18	24.0	<15	$\emptyset$ 10.3 x 1.68	works with Qi Rx IC's
	760 308 102 210	7.5	180	3.00	45	22.0	<50	37.0 x 37.0 x 1.8	Qi-Airfuel Alliance
	760 308 103 211	7.3	200	2.50	28	12.7	<40	46.0 x 36.0 x 0.5	Qi-Airfuel Alliance
	760 308 102 212	5.4	240	2.00	18	25.0	<30	29.0 x 29.0 x 0.64	works with Qi Rx IC's
	760 308 102 213	7.9	330	1.70	18	21.0	<30	29.0 x 29.0 x 0.62	Qi-Airfuel Alliance
	760 308 101 214	26.0	520	1.10	25	11.0	<20	$\emptyset$ 19.0 x 0.8	works with Qi Rx IC's
	760 308 105 214	6.3	350	1.50	15	25.0	<20	$\emptyset$ 19.0 x 0.8	works with Qi Rx IC's
	760 308 103 215	14.3	190	3.00	40	8.8	<50	48.0 x 32.0 x 1.0	works with Qi Rx IC's
	760 308 101 216	7.2	440	0.80	10	32.0	<5	$\emptyset$ 6.0 x 2.0	works with Qi Rx IC's
	760 308 101 217	24.2	1400	0.40	13	17.5	<5	$\emptyset$ 10.3 x 1.86	works with Qi Rx IC's
	760 308 101 219	11.8	750	0.70	13	22.0	<5	$\emptyset$ 15.0 x 0.6	works with Qi Rx IC's
	760 308 101 220	12.6	340	1.10	20	19.0	<20	$\emptyset$ 17.0 x 0.82	works with Qi Rx IC's
760 308 101 221	24.0	1150	0.40	16	10.0	<5	$\emptyset$ 6.0 x 4.31	works with Qi Rx IC's	
760 308 101 303	47.0	500	1.50	30	8.0	<20	$\emptyset$ 26.3 x 1.3	works with Qi Rx IC's	
760 308 101 309	10.0	450	1.50	20	19.0	<20	$\emptyset$ 26.3 x 0.5	works with Qi Rx IC's	
760 308 105 309	10.5	450	1.50	19	18.5	<20	$\emptyset$ 26.0 x 0.5	works with Qi Rx IC's	
Combi Coils	760 308 103 305	8.8/1.4	220/100	2.6/5.0	30/47	22.0/16.0	<40/<80	45.0 x 44.0 x 0.72	Qi-Airfuel Alliance – NFC
	760 308 102 306	8.0/1.4	400/100	2.0/5.0	19/47	17.5/19.0	<40/<80	44.0 x 44.0 x 1.0	Qi-Airfuel Alliance – NFC
	760 308 103 307	7.8/1.6	340/100	1.5/4.0	19/47	22.0/24.0	<20/<40	40.0 x 27.0 x 1.0	Qi-Airfuel Alliance – NFC

\* calculated with  $U_{\text{DC}} = 20 \text{ V}$

# Wireless Power Development Kit 200 W

Order Code 760 308 EMP, Version 1.0



Infineon and Würth Elektronik eiSos (WE) offers this wireless power development kit (order code 760308EMP) to demonstrate the advantages of wireless power as well as to give developers the opportunity to test and integrate a wireless power solution into their application.



## Key Specification

- Mains power input voltage ..... 100 – 240 V<sub>AC</sub>
- Regulated input voltage ..... 24 V<sub>DC</sub>
- Maximum transmitted power ..... 200 W
- Output voltage ..... 19 – 20 V

## Features

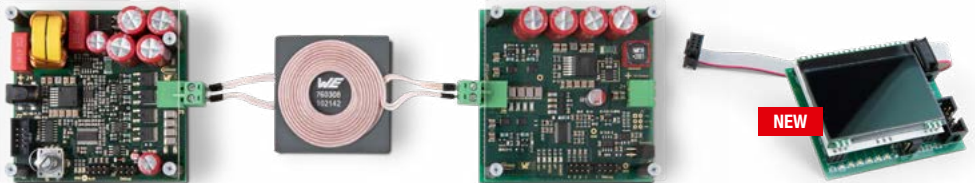
- Plug & Play Wireless Power Development Kit
- Complete solution consisting of TX and RX
- Flexible and modular approach for fast integration of wireless power into your product design
- Data transfer between receiver and transmitter board
- Manual and automatic output voltage control
- IoT sensor I<sup>2</sup>C interface
- Visit [www.we-online.com/wirelesspower/200Wkit](http://www.we-online.com/wirelesspower/200Wkit) and [www.we-online.com/wirelesspower/lcd](http://www.we-online.com/wirelesspower/lcd) for details



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Strategic partnerships with all major chip set suppliers





# more than you expect

## **Würth Elektronik eiSos differs from all other component manufacturers in several aspects:**

- We guarantee all catalogue products are available ex stock
- Samples free of charge
- Orders below MOQ
- Design kits with lifelong free refill
- Design Guide Trilogy of Magnetics, Trilogy of Connectors, Trilogy of Wireless Power Transfer, Abc of Capacitors, Abc of Power Modules, The LTspice XVII simulator
- Design Seminars and Webinars free of charge
- Reference designs of leading IC manufacturers
- Worldwide technical sales force and field application engineers on site