

COILS FOR WIRELESS CHARGING & WIRELESS POWER

Applications: Robotics | Drones | Automation Systems Power Tools
 Medical Devices | Qi compatible | Low Profile / Compact | High Power



Semtech's LinkCharge™
 20 TSDMRX-19V20W-EVM
 reference design board

The Wireless Advantage

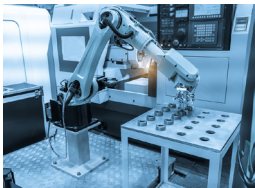
Perfect for differentiated wireless power and charging technology, Abracon offers a wide range of both transmit and receive coils. Charging coils are available off-the-shelf and feature compatibility with Qi.

Abracon directly addresses the growing need in high power applications for wireless charging technology. Benefits include fully enclosed devices, the elimination of contact failures and efficient power transfer

Ahead of the trend: large returns in high power applications

The growth of wireless power and wireless charging in manufacturing alone has the potential to disrupt the traditional production line with significant growth in efficiency. As industrial designers innovate new solutions, demand for high power coils is skyrocketing.

Applications: Industrial IoT, Robotics, Medical Equipment & more



Industrial Robotics



Hermetically Sealed
 Medical Equipment



Drones



Power Tools
 Roamable Industrial
 Appliances



Industrial IoT

85% efficiency at 20W: Semtech's Linkcharge 20™

Semtech's complete wireless charging solution delivers up to 85% efficiency at 20W, featuring Abracon's AWCCA-RX350300-101 wireless charging RX coil. Designed for compact applications, it features a 35mm diameter achieving a high power density with a low profile 3.15mm max height.

PART NUMBER	INDUCTANCE	DC RESISTANCE	Q
AWCCA-RX350300-101	25µH±10%	<150mΩ Typ	90 Typ
Test Condition	100KHz / 1V	20±15 °C	100KHz/1V
Test Equipment	HP4284A, HP42841A , Agilent 34420A or equivalent		
Test Environment	Temperature: 20±15 °C, RH: 65% ±20%.		