

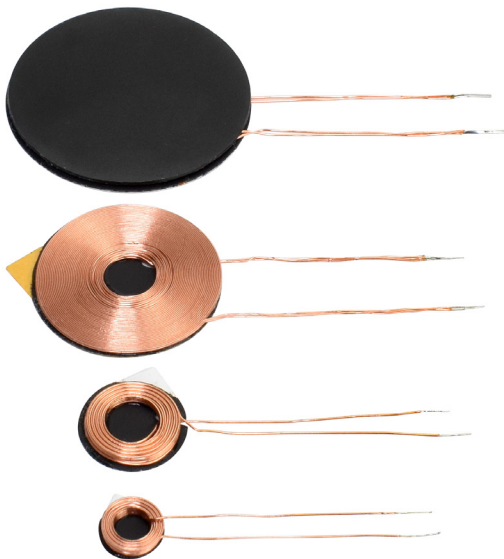
WRSC Series

Circular Wireless Charging Coils (Receiving)

Signal's Wireless Circular Charging Coil (WRSC) Series are receiving rectangular wireless charging transmission coils, available in single windings configuration. The WRSC Series allows power to be transmitted wirelessly through inductive coupling to charge an array of products.

The WRSC Series transmitter coils utilize inductive coupling to transfer signals, data and power from one source to another.

The advantages of the WRSC's use of inductive coupling eliminates conductive connections and traditional wiring, seamlessly transferring data and power while avoiding the mechanical abrasion, corrosion and wearing-out of conductive contacts. The fixed-in position inductive coils are non-moving, resistant to vibration and corrosion, and are designed for reliability and longevity.



General Features

- Single coil, three/four layers
- Pin cooling technology and tight pin tolerance control within ± 1.0 mm after the tin immersion process
- Inductance tolerance: Rectangular core shape
- Size and shape characteristics are customizable
- Low profile & high mechanical intensity
- Qi standard compliance
- RoHS and REACH compliant

Specifications

- Impedance range: 11 to 16.7 ohms at 125 kHz
- I sat range: 1.0 to 3.0 A
- Operating Temperature Range: -25 °C to +105 °C
- Storage Temperature Range: -40 °C to +85 °C

Applications

- Mobile phones, tablets & gaming controllers
- Digital cameras, consumer electronics
- Smart accessories, wearable devices
- Wireless charging devices
- Drones, toothbrushes, robotic cleaners
- Health & fitness

PRODUCT IDENTIFICATION

W R S C - 13R0 K - 26
(1) (2) (3) (4) (5) (6) (7)

- (1)

Type: Wireless Charging Coil
- (2)

Location: R = Receiver
- (3)

Number of Windings: S = Single
- (4)

Winding Core Shape: C = Circular
- (5)

Inductance: 13R0 = 13.0 μ H
- (6)

Inductance Tolerance: K: $\pm$ 10%
- (7)

Qi standard code or other

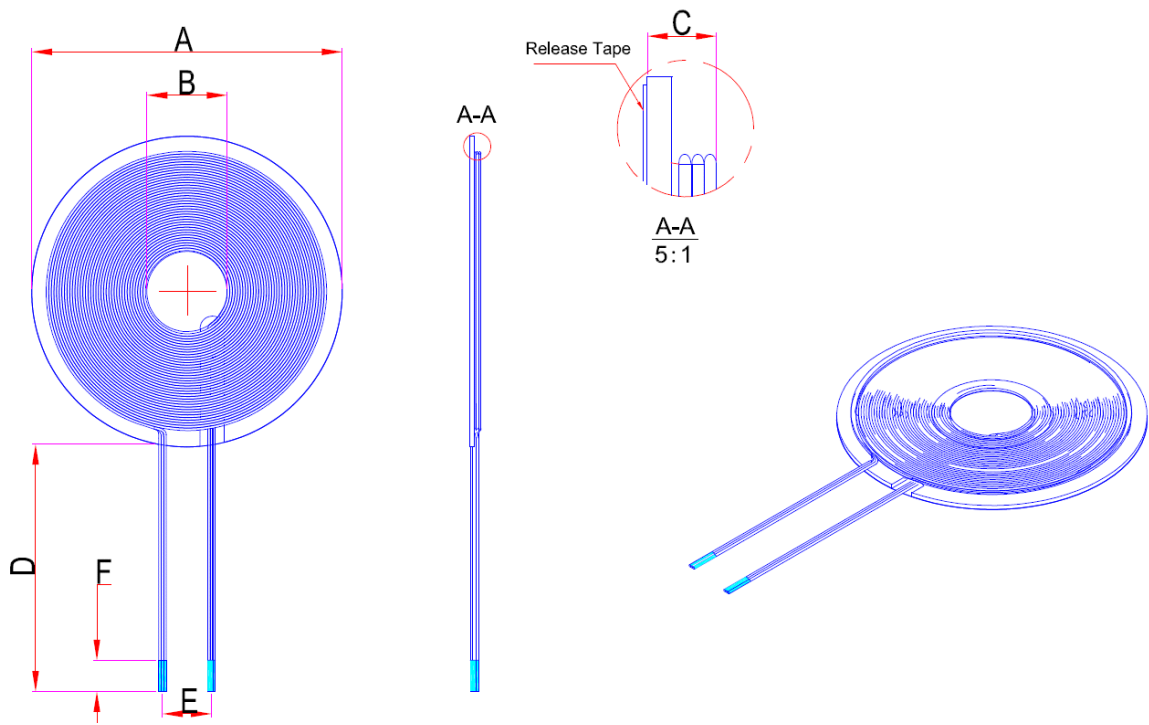
MECHANICAL SPECIFICATIONS

Dimensions are in mm.

Part Number	A	B	C *	D	E	F
WRSC-7R2K-32	6.0 $\pm$ 0.5		2.0 Max	25.0 $\pm$ 2.0	2.5	5.0 $\pm$ 2.0
WRSC-13R0K-26	10.5 Max		1.7 Max	25.0 $\pm$ 2.0	2.0	5.0 $\pm$ 2.0
WRSC-26R0K-11	19.0 $\pm$ 0.3	5.0 $\pm$ 0.3	0.8 Max	25.0 $\pm$ 1.0	3.0 Ref	5.0 $\pm$ 2.0
WRSC-47R0K-08	26.0 $\pm$ 0.3		1.31 $\pm$ 0.3	25.0 $\pm$ 1.0	3.0 Ref	5.0 $\pm$ 2.0

* C size does contain release paper & PET.

DIMENSIONS



Custom versions available upon request.



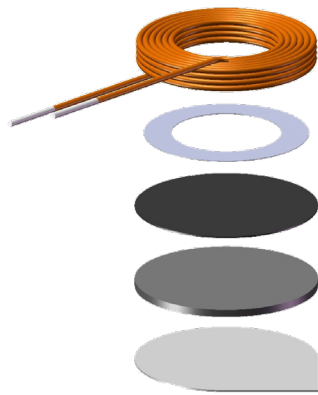
128 Atlantic Avenue, Lynbrook, NY 11563
Toll Free 866-239-5777 | Tel 516-239-5777 | Fax 516-239-7208
sales@signaltransformer.com | techhelp@signaltransformer.com
belfuse.com/signal

ELECTRICAL SPECIFICATIONS

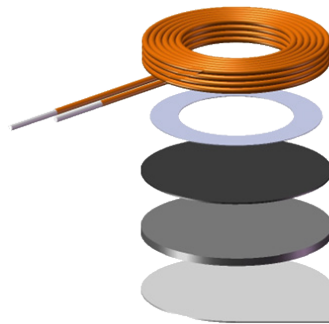
Electrical specifications measured at 25°C / RH 65% unless otherwise stated.

Part Number	L (± 10%)	DCR (Max)	Q (Typ)	I rms (Max) @ 40°C	Isat (Typ)	Operating Temperature	Test Condition
WRSC-7R2K-32	7.2 μ H	440 m Ω	10	0.5 A	1.0 A	-25 to 105°C	125 kHz / 10 mA
WRSC-13R0K-26	13.0 μ H	500 m Ω	17	0.8 A	2.0 A	-25 to 105°C	125 kHz / 10 mA
WRSC-26R0K-11	26.0 μ H	520 m Ω	25	1.1 A	2.0 A	-25 to 105°C	125 kHz / 10 mA
WRSC-47R0K-08	47.0 μ H	500 m Ω	25	1.5 A	3.0 A	-25 to 105°C	125 kHz / 10 mA

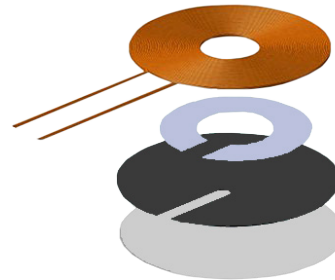
COIL ASSEMBLY



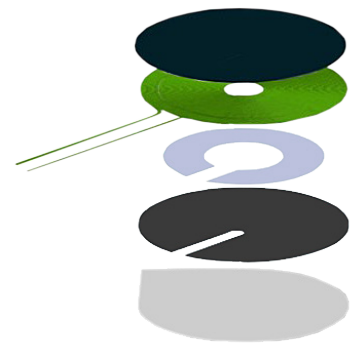
WRSC-7R2K-32



WRSC-13R0K-26



WRSC-26R0K-11



WRSC-47R0K-08

Custom versions available upon request.

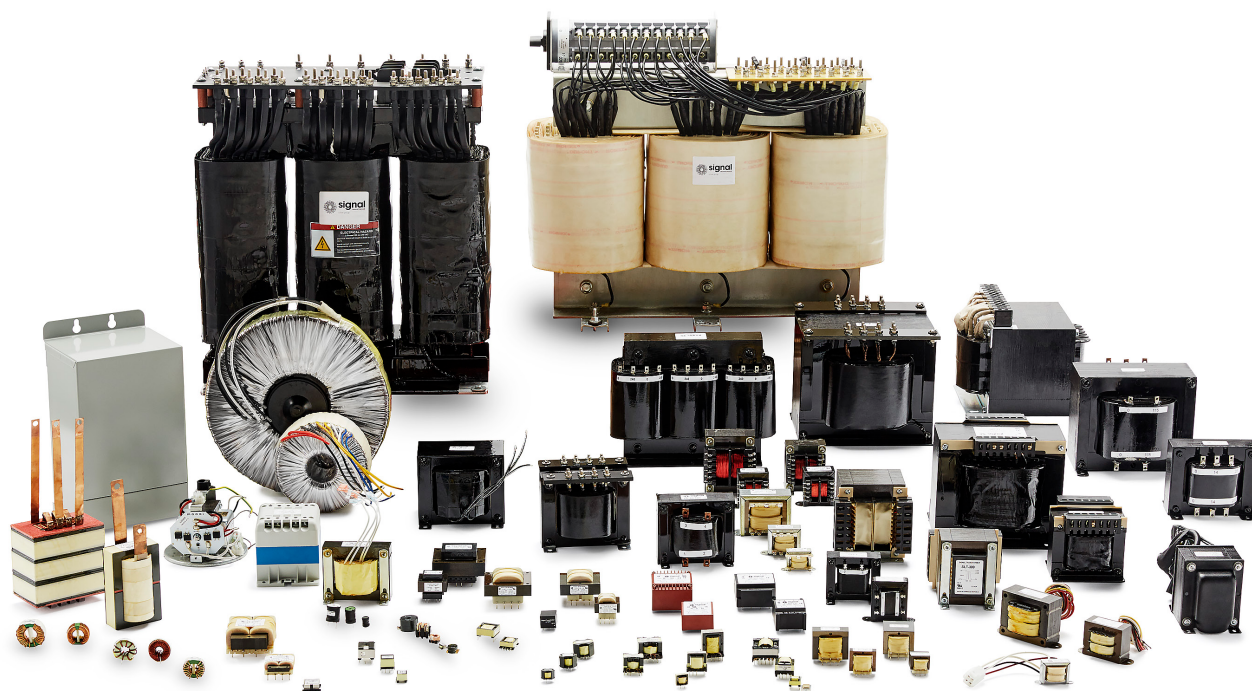


128 Atlantic Avenue, Lynbrook, NY 11563
Toll Free 866-239-5777 | Tel 516-239-5777 | Fax 516-239-7208
sales@signaltransformer.com | techhelp@signaltransformer.com

belfuse.com/signal

About Signal Transformer

Signal Transformer is known as the world's leader of wire wound magnetic solutions since 1959. With over 50 years of experience manufacturing transformers, chokes, inductors and custom or modified standard products. Signal offers not only the most comprehensive line of certified standard power conversion products, with our vast engineering, manufacturing and regulatory resources; Signal Transformer excels in the design and manufacturer of cost effective, specialized platforms.



**For more information,
please contact us:**

128 Atlantic Avenue
Lynbrook, NY 11563

Toll Free +1 866-239-5777

Tel +1 516-239-5777

Fax +1 516-239-7208

sales@signaltransformer.com
techhelp@signaltransformer.com



belfuse.com/signal