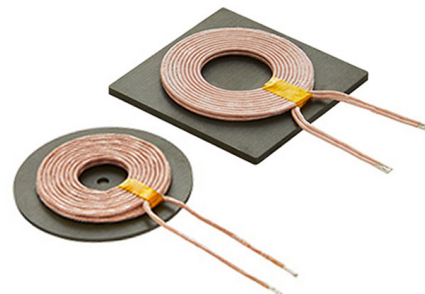


SERIES: WCC | DESCRIPTION: WIRELESS CHARGING COIL (SINGLE WINDING)

FEATURES

- Pin cooling technology and tight pin tolerance control within ± 1.0 mm after the Tin Immersion process
- Two core shapes, square/rectangular (Q) or circular (C)
- Size and shape characteristics are customizable
- Qi standard compliance
- Low profile & high mechanical intensity
- Inductance tolerance is $\pm 10\%$ for (K) with inductance of 6R for 6.3 μH
- Performance had been confirmed based on WPC equipment



MODEL

MODEL	Inductance (Lo)	Tolerance	DC Resistance (DCR)	I _{rms}	I _{sat}
	typ [μH]	typ [$\pm \%$]	max [m Ω]	typ [A]	typ [A]
WTSC-10R0K-A3	10.0	10	75	4.0	6.0
WTSC-6R3K-A11	6.3	10	40	6.0	10.0
WTSC-6R3K-A11B	6.3	10	40	6.0	10.0
WTSQ-6R3K-A11	6.3	10	25	9.0	10.0
WTSC-24R0K-A10	24.0	10	85	6.0	10.0
WTSQ-10R0K-MP-A5	10.0	10	48	7.0	10.0

Notes:

- Test frequency: 100 kHz, 1.0V
- Electrical specifications measured at 25°C / RH 65% unless otherwise stated.

PART NUMBER KEY

WTSX - 6R3K - A11

Type / Product Series

W = Wireless
T = Transmitter
S = Single Winding
C = Circular Charging Coil / **Q** = Square Charging Coil

Standard Code or Other

Inductance Tolerance

K = $\pm 10\%$

Inductance *

10R0 = 10.0 μH
6R3 = 6.3 μH
24R0 = 24.0 μH

* Note: Inductance expressed by three figures. The unit is micro henry (μH). The first and second figures are significant digits, the third figure expresses the number of zeros which follow the two figures. If there is a decimal point, it is expressed by the capital letter "R" (6R3 = 6.3 μH). In that case, all figures are significant digits.

SAFETY AND COMPLIANCE

Parameter	Compliant
RoHS	Compliance with ROHS, REACH, Prop 65 & Conflict Minerals

ENVIROMENTAL

Parameter	Conditions	Min	Typ	Max	Units
Operating temperature	general applications	-20		85	°C
	automotive	-40		125	°C

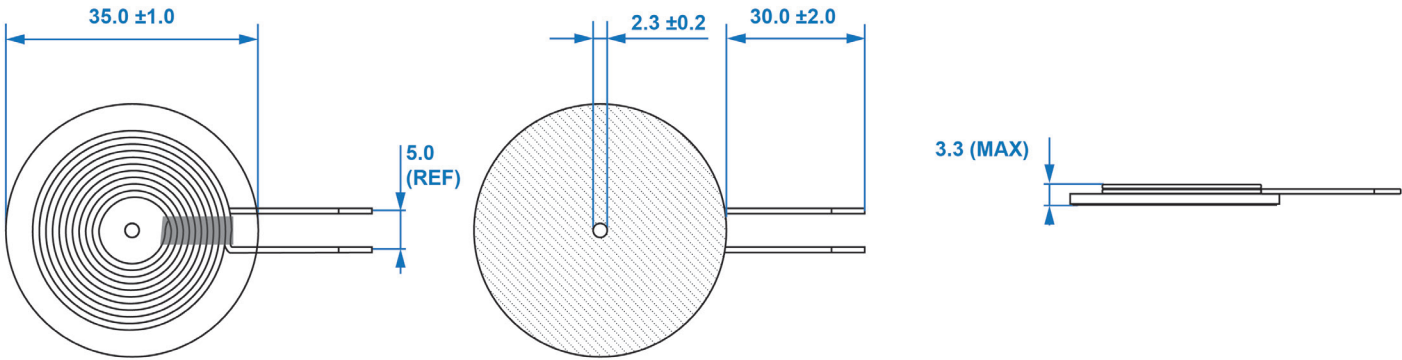
MECHANICAL

Parameter	Conditions	Min	Typ	Max	Units
Dimensions	WTSC-10R0K-A3: 35.0 x 2.3 x 3.3				mm
	WTSC-6R3K-A11: 50.0 x 3.5				mm
	WTSC-6R3K-A11B: 50.0 x 3.0				mm
	WTSQ-6R3K-A11: 53.0 x 53.0 x 5.3				mm
	WTSC-24R0K-A10: 50.0 x 4.0				mm
	WTSQ-10R0K-MP-A5: 53.0 x 53.0 x 5.3				mm

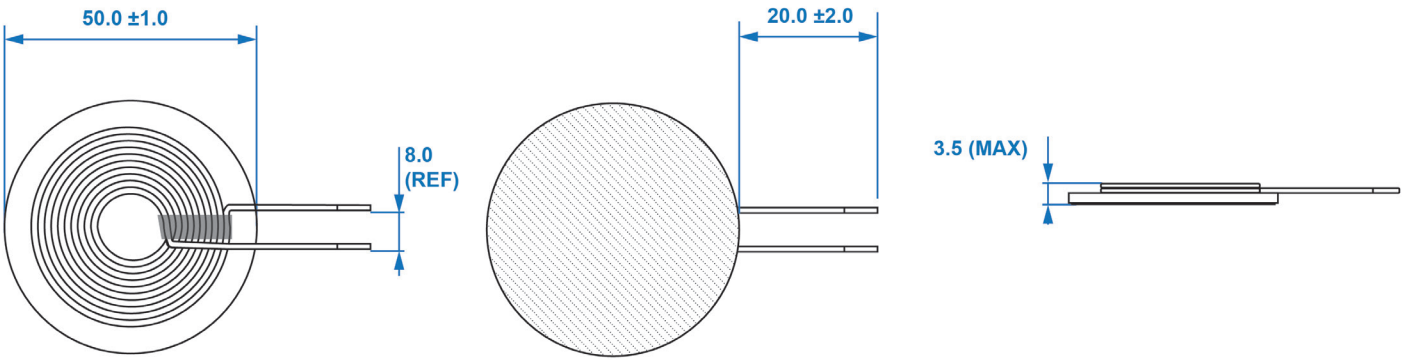
MECHANICAL DRAWING

Units: mm

WTSC-10R0K-A3



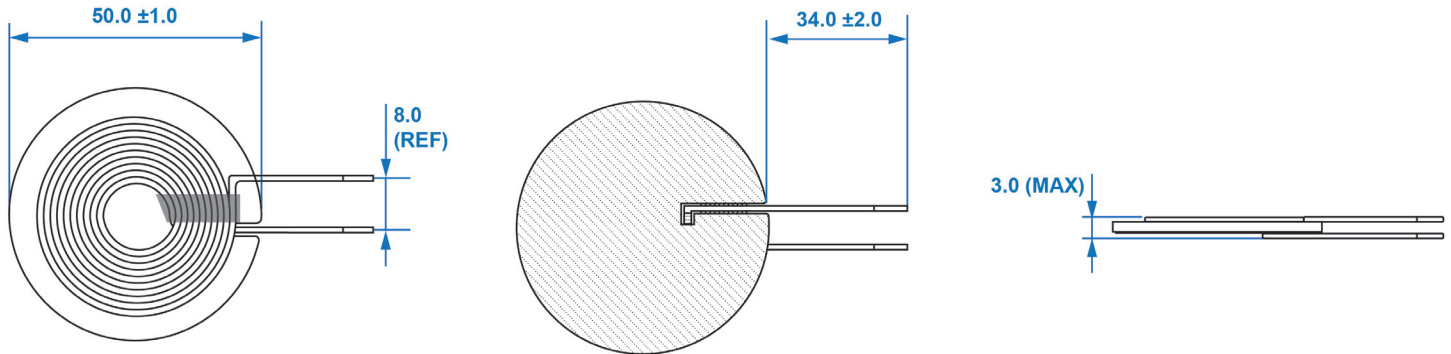
WTSC-6R3K-A11



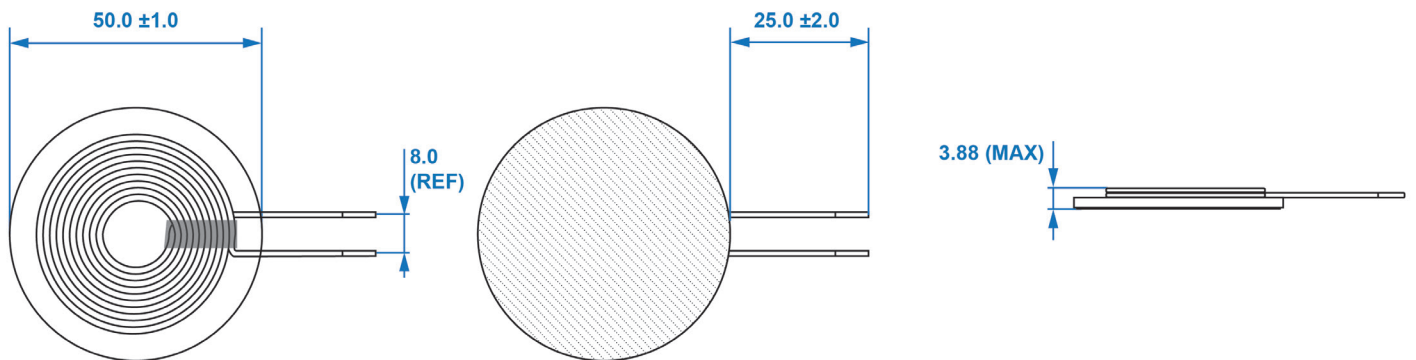
MECHANICAL DRAWING (CONTINUED)

Units: mm

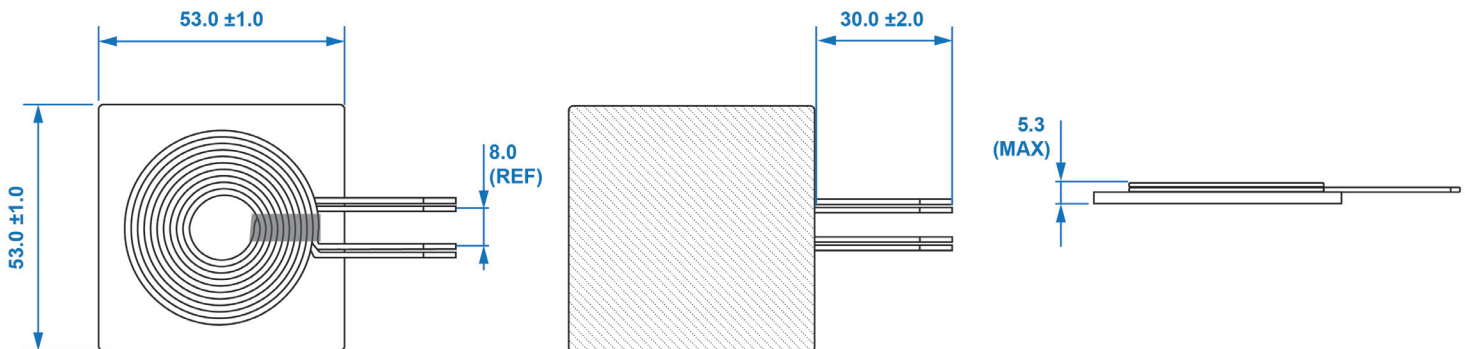
WTSC-6R3K-A11B



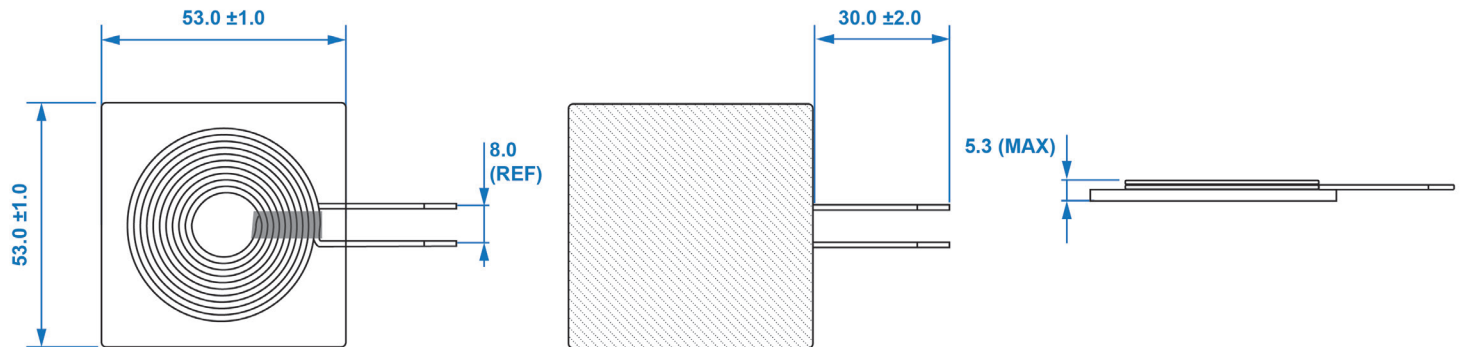
WTSC-24R0K-A10



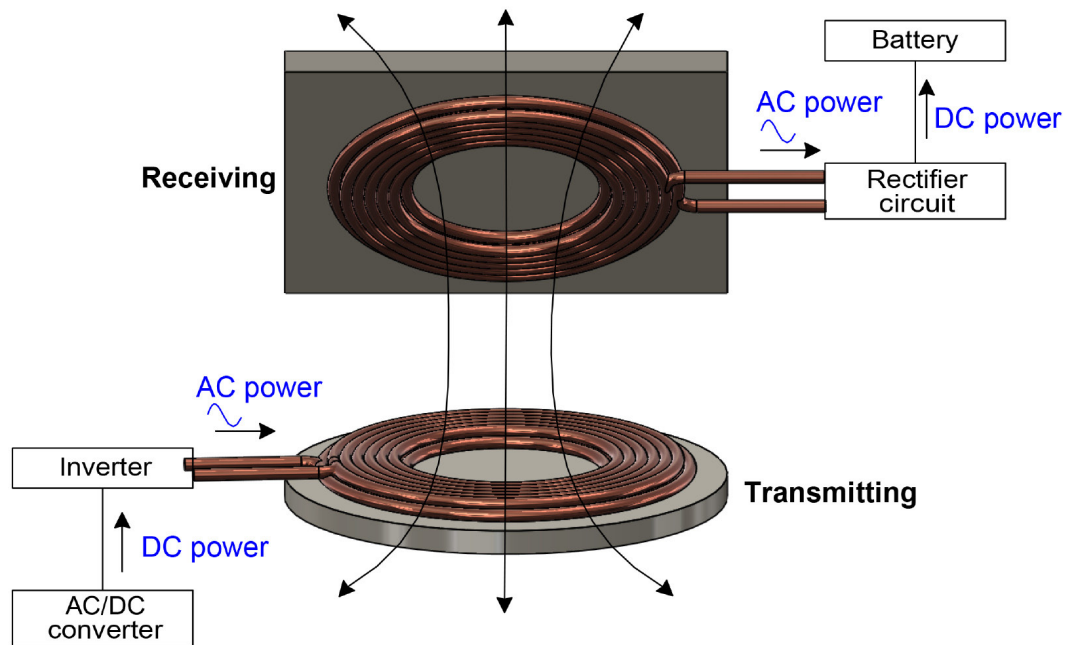
WTSQ-6R3K-A11



WTSQ-10R0K-MP-A5



COIL UNIT ASSEMBLY



REVISION HISTORY

Rev.	Description	Date
1	initial release	June/20/2020
A	datasheet updated	July/8/2025

NUCLEAR AND MEDICAL APPLICATIONS - Products are not designed or intended for use as critical components in life support systems, equipment used in hazardous environments, or nuclear control systems.

TECHNICAL REVISIONS - The appearance of products, including safety agency certifications pictured on labels, may change depending on the date manufactured. Specifications are subject to change without notice.



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