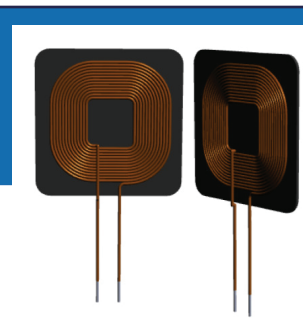
LOW PROFILE WIRELESS CHARGING COIL

AWCCA-20R20H08-C01-B



20.0 mm x 20.0 mm x 1.0 mm

RoHS/RoHS II Compliant

MSL= 1

FEATURES

- Wireless Charging Receiver Coil
- 12µH inductance
- Space saving 20.0mm diameter
- Low 1.0mm profile
- High permeability shielding to protect sensitive electronics
- Durable construction, industrial -25˚C to 85°C operating temperature

APPLICATIONS

- Wearables and IoT
- Smart Watches
- Medical Devices
- Digital Cameras and Camcorders
- Consumer Electronics
- Portable Electronics
- Portable Audio
- Portable lighting

MAXIMUM RATINGS

Item	Value
Operating Temperature Range	T=-25˚C ~ 85°C, RH≤ 90%.
Storage Temperature Range	-25°C~85°C, 70%RH (Max.)

ELECTRICAL SPECIFICATIONS

Part Number	Inductance	DC Resistance	Q
AWCCA-20R20H08-C01-B	12µH ±10%	290mΩ±20%	20±30%
Test Condition	100KHz / 1V	20±10°C	100KHz/1V
Test Equipment	Agilent E4980A or equivalent		
	Temperature: 20±10˚C, RH: 65% ±20%		

Test Conditions: Ambient Temperature: 20±10˚C, RH: 65% ±20%. If any doubt on the results, measurements/tests should be made within the following limits: Ambient Temperature 20±2˚C, RH: 65%±5%

PART IDENTIFICATION

AWCCA-20R20 H08 - C 01 - B

HEIGHT	FEATURE	DESIGN CODE	PACKAGING
H08 = 1.0mm	C= Coil	01	B:Box

NRND

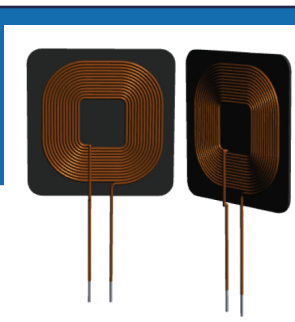
ABRACON LLC
5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 04-11-19

ABRACON IS ISO9001-2015 CERTIFIED

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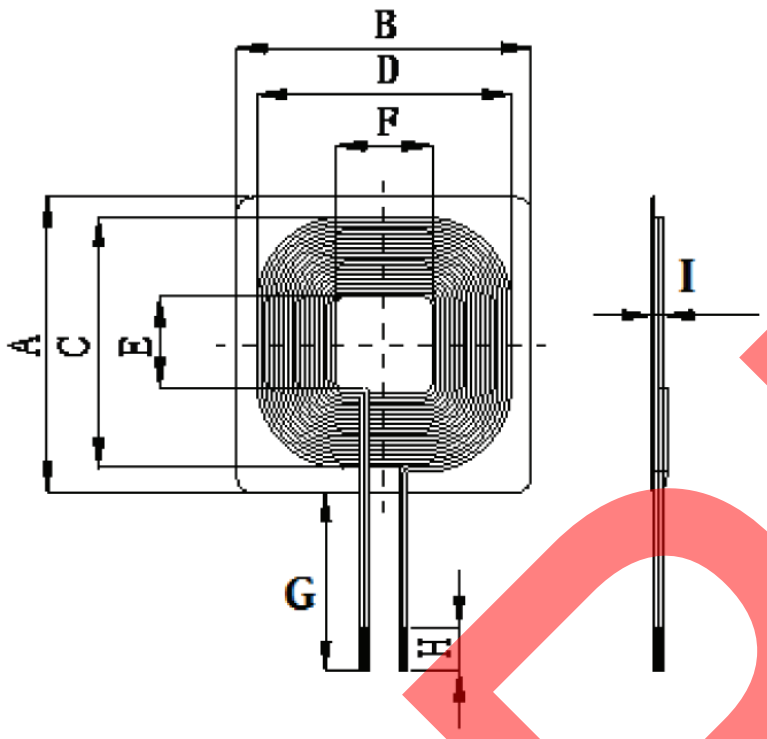
MSL= 1

MECHANICAL DIMENSIONS (ALL DIMENSIONS ARE IN mm)

Tolerances are ±0.2mm, unless otherwise specified*

Dimensions of AWCCA-20R20H08-C01-B

Item	A	B	C	D	E	F	G	H	I
Spec	20.0 REF	20.0 REF	18.2 REF	18.2 REF	6.5 REF	6.5 REF	15.0±2	3.0±1	1.0 REF



Winding Details of AWCCA-20R20H08-C01-B

Number of Coils	Wire	Number of Turns	Inductance
1	φ0.2mm	24	12±10%μH

Wave Soldering Profile: Not suitable for wave soldering
Manual Soldering: 350˚C Max, 3secs
Packaging: Box, 100pcs MOQ

STORAGE AND OPERATIONAL CONDITIONS

Storage Conditions

1. Recommended storage conditions: -25˚C~85˚C, 70%RH (Max.)
2. Service life: Within the limits of six month from being produced.
3. The appearance and solder ability should be checked, if product is not in expiry date.

Operation Conditions

1. Use condition limit: T=-25˚C ~ 85˚C, RH≤ 90%.

PRELIMINARY

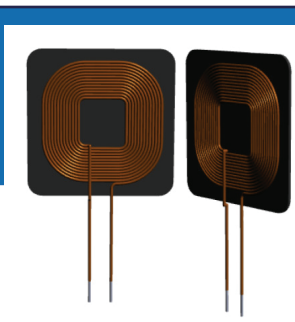
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NOTES

1. The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.

2. ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.

3. In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.

4. When changing your production process, please notify ABRACON immediately.

5. ABRACON LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. ABRACON's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from ABRACON LLC is required. Please contact ABRACON LLC for more information.

6. All specifications and Marking will be subject to change without notice.

NRND

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