

ECN/PCN No.: 4274

For Manufacturer			
Product Description: Ceramic SMD Crystal Oscillator	Abracón Part Number / Part Series: EC56	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> ECN <input type="checkbox"/> EOL	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number
Affected Revision: H	New Revision: I	Application:	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety
Prior to Change: EC56 Rev H SPQ Options TAPE & REEL DIMENSIONS Quantity per Reel: 1000 Units			
After Change: EC56 Rev I SPQ Options TAPE & REEL DIMENSIONS Quantity per Reel: 3000 Units			
Cause/Reason for Change: Update drawing to reflect existing packaging capabilities.			
Change Plan			
Effective Date: 4/13/2022	Additional Remarks:		
Change Declaration:			
Issued Date: 4/13/2022	Issued By: <i>Stephanie Lopez</i>	Issued Department: Engineering	
Approval: <i>Thomas Culhane</i> Engineering Director	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director	
For Abracon EOL only			
Last Time Buy (if applicable): None	Alternate Part Number / Part Series: None		
Additional Approval:	Additional Approval:	Additional Approval:	
Customer Approval (If Applicable)			
Qualification Status: <div style="text-align: center;"> <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted </div> <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
Customer Part Number:		Customer Project:	

Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		

Wireless Charging Coil Assembly

AWCCA-48R32 Series



RoHS / RoHS II Compliant



48.5 x 32.5mm

Moisture Sensitivity Level (MSL) – MSL = 1

FEATURES:

- Wireless Charging Receiver single Coil (11.1μH)
- Outline Dimensions: 38.5mm x 32.5mm x 1.0mm
- For Rx applications
- High permeability shielding to protect sensitive electronics
- Durable construction
- RoHS / RoHS II Compliant & Pb free.

APPLICATIONS:

- Batteries and Battery Chargers
- Consumer Electronics
- Smart Watches
- Digital Cameras and Camcorders
- Wireless Charging Stations
- Mobile Phones & Charging Accessories
- Power Supplies
- Power Tool Manufacturers

STANDARD SPECIFICATIONS

Maximum Ratings

Item	Value
Operating Temperature Range (including self-temp rise)	T= -40°C ~ 85°C
Storage Temperature (Packaging)	<40°C 60%RH (Max.)

Electrical Characteristics

Part Number	Inductance	Q-Factor	Current Rating (rms)	DC Resistance
AWCCA-48R32H11-C01-B	10.5μH ±10%	23 min.	2.6A Typ.	160mΩ ±20%
Test Condition	100KHz / 1V			

Test Conditions

A) If any doubt on the results, measurements/tests should be made within the following limits: Ambient Temperature: 20±2°C, RH: 65%±5%

B) Irms: Base on temperature rise by 40°C Typ.

PART IDENTIFICATION:

AWCCA-48R32 H11 - C 01 - B

Height	Feature	Design Code	Packaging
H11 = 1.5mm max	C = Coil	01	B: Box

Wireless Charging Coil Assembly

AWCCA-48R32 Series

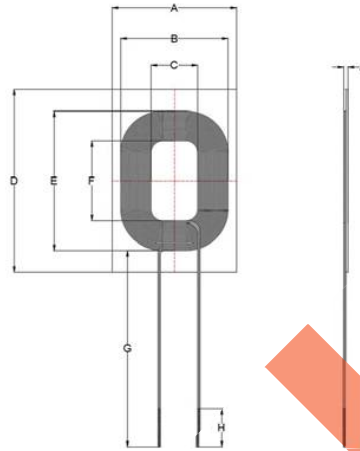


RoHS / RoHS II Compliant



48.5 x 32.5mm

OUTLINE DIMENSIONS:



Dimensions: mm

A	B	C	D	E	F	G	H	J
32.0±0.5	28.0±1.5	12.0±1.0	48.0±0.5	37.0±1.5	21.0±1.0	50.0±2.0	10.0±2	1.5 Max

Winding Specifications

Number of Coils	Wire	Number of Turns	Inductance
1	φ0.30 x 2	13	10.5μH ±10%

Product Customization

Products can be customized according to the Wireless Charging Coil Standards or to customer requirements. Please refer to the following table for the feature ranges, and contact ABRACON or authorized distributor / agent for further details.

Inductance Range [μH]	DC Resistance Range [mΩ]	Dimension Range [mm]	Thickness range [mm]
1 ~ 100	10 ~ 1000	10 ~ 200	0.4 ~ 10

Manual Soldering: 350°C Max, 3secs

Storage condition

- Recommended storage conditions: -40°C~85°C, 70%RH (Max.)
- Recommended storage conditions (with packaging): <40°C, 60%RH

Operation Conditions

- Use condition limit: T=-40°C ~ +85°C, (including self-temperature rise).

ATTENTION: 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-dependent 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.



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 For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 05-05-21

ABRACON IS
 ISO9001-2015
 CERTIFIED

Series	PNs
EC56	EC5620ETTTTS-10.700M TR
EC56	EC5620ETTTTS-25.000M TR
EC56	EC5620ETTTTS-39.000M TR
EC56	EC5625ETTS-16.000M TR
EC56	EC5625ETTS-20.000M TR
EC56	EC5625ETTS-25.000M TR
EC56	EC5625ETTS-26.000M TR
EC56	EC5625ETTS-50.000M TR
EC56	EC5625ETTS-8.000M TR
EC56	EC5625ETTTTS-10.000M TR
EC56	EC5625ETTTTS-12.000M TR
EC56	EC5625ETTTTS-16.000M TR
EC56	EC5625ETTTTS-20.000M TR
EC56	EC5625ETTTTS-25.000M TR
EC56	EC5625ETTTTS-26.000M TR
EC56	EC5625ETTTTS-4.000M TR
EC56	EC5625ETTTTS-50.000M TR
EC56	EC5625ETTTTS-8.000M TR
EC56	EC5645ETTTTS-16.000M TR
EC56	EC5645ETTTTS-20.000M TR
EC56	EC5645ETTTTS-24.000M TR
EC56	EC5645ETTTTS-25.000M TR
EC56	EC5645ETTTTS-26.000M TR
EC56	EC5645ETTTTS-27.000M TR
EC56	EC5645ETTTTS-30.000M TR
EC56	EC5645ETTTTS-32.000M TR
EC56	EC5645ETTTTS-48.000M TR
EC56	EC5645ETTTTS-50.000M TR
EC56	EC5645TS-20.000M TR