

# ABRACON Engineering/Process Change Notice

**ECN/PCN No.: 3519** 

For Manufacturer								
Product Description: Thru-Hole ceramic resonator	Abracon Part Number / Part Series: AWCR-RS		<ul><li>☑ Series</li><li>☐ Part Number</li></ul>					
Affected Revision: E	New Revision: EOL	Application:	☐ Safety ☑ Non-Safety					
Prior to Change:								
In //	D DC 16							
https://abracon.com/Resonators/AWC	k ks.pat							
After Change:								
EOL								
Cause/Reason for Change:								
Production will be discontinued								
Change Plan								
Effective Date: Immediate	Additional Remarks:							
Change Declaration:								
leaved Detect	Januard Dun	leaved Department						
Issued Date: 4/22/20	Issued By: Stephanie Lopez	Issued Department: Engineering						
Approval:	Approval:	Approval:						
Thomas Culhane	Reuben Quintanilla	Ying Huang						
Engineering Director	Quality Director Purchasing Director							
For Abracon EOL only  Last Time Buy (if applicable):  Alternate Part Number / Part Series:								
9/15/2020	Alternate Part Num	None						
Additional Approval:	Additional Approval:	Additional Approva	ıl:					
	Customer Approval (If Applicable)							
Qualification Status:	$\square$ Approved $\square$ Not accepted							
	e is no feedback from the customer 1 m	<u> </u>	is released.					
Customer Part Number:	ctomer Part Number: Customer Project:							
Company Name:	Company Representative:	Representative Signature:						
Customer Remarks:								

Form #7020 Rev. D Effective: 02/11/2020 Page 1 of 1

# LOW PROFILE LEADED INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

**AWCR-RS** 

**RoHS/RoHS II Compliant**Pb in ceramic, exemption (7c-I)



#### **FEATURES:**

- Built-in capacitors save space & components.
- Low cost timing solution.
- Small size, Light weight.

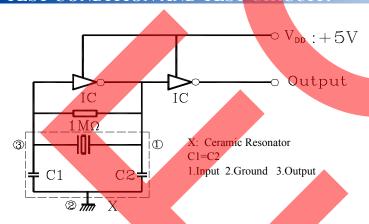
#### > APPLICATIONS:

- Microprocessor clocks.
- Electric appliances.Remote controls.
- Industrial controllers.
- General timing.

### **ELECTRICAL CHARACTERISTICS:**

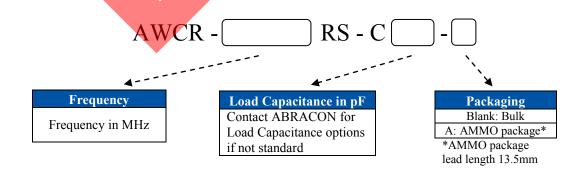
Param	eters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	e	6.01		12.50	MHz	
Resonant Impeda	ance (Ro)			25	Ω	
Frequency Toler	ance	-0.5		+0.5	%	
Frequency Stabil	lity	-0.3		+0.3	%	-25°C to +85°C
Withstanding Vo	oltage			100	Vdc	5 secs
Rating Voltage	D.C. Voltage			6	Vdc	
	A.C. Voltage			15	Vp-p.	
Load Capacitanc	e	12	15	18	pF	
Insulation Resist	ance	500			MΩ	10Vdc, 1min
Operation Tempo	erature	-25		+85	°C	
Storage Tempera	iture	-40		+85	°C	
Aging Rate (Fos	c)	-0.3		0.3	%	From initial value

## TEST CONDITION AND TEST CIRCUIT:



Parts shall be mea sured under a condition (Temp.: 20±15°C, Humidity: 65±20% R.H.) unless the standard condition (Temp: 25±3°C, Humidity: 65±10% R.H.) is regulated to measure

# **OPTIONS & PART IDENTIFICATION:**







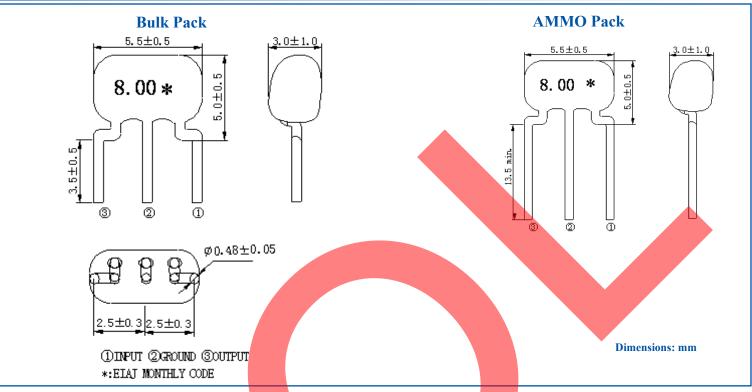
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#### **OUTLINE DRAWING:**



#### Packaging:

Bulk: 500pcs/plastic bag AMMO: 2000pcs/box

**Note:** upon opening the original packaging, it is recommended that the product be used within 1 year. If the product will not be used within 1 year, it is recommended that the product be re-sealed in airtight packaging according to MSL 1 requirements to maintain solderability.

# > CAUTION

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) This component is not hermetically sealed. Do not clean or wash the component.
- (3) Reflow Soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during Reflow Soldering.
- (4) Do not expose the component to open flame.
- (5) This specification applies to the functionality of the component as a single unit.
- (6) Storage Conditions: If the product is to be stored for a period greater than 1 year after the Delivery Date, it is recommended that customers confirm the solderability and characteristics for the product prior to use.
- (7) This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability life dependant applications. ContactAbracon Corporation prior to using this product when in doubt.

**ATTENTION:** Abracon Corporation'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 Corporation is required. Please contact Abracon Corporation for more information.



