

# 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.

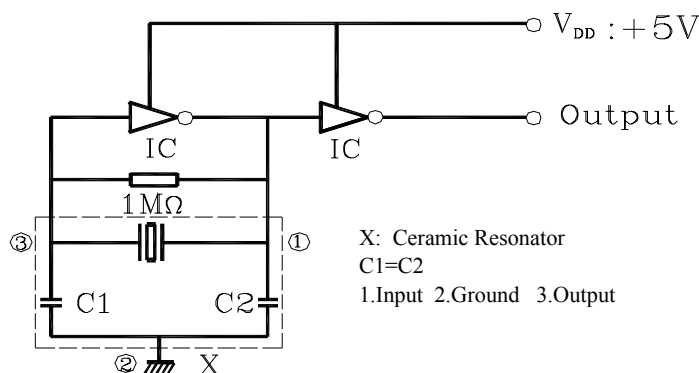
## APPLICATIONS:

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

## ELECTRICAL CHARACTERISTICS:

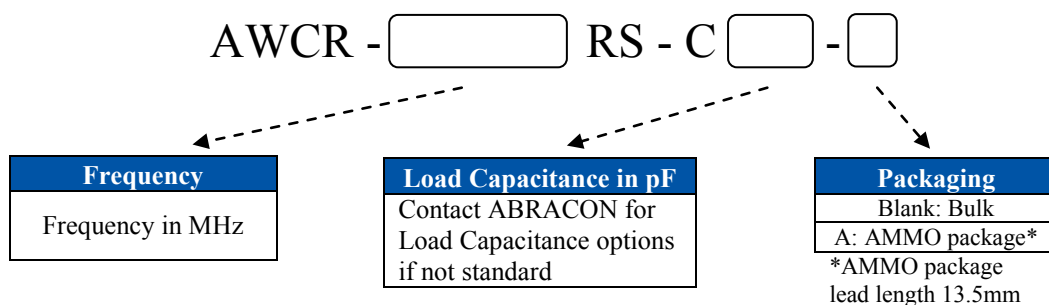
| Parameters              |              | Minimum | Typical | Maximum | Units      | Notes              |
|-------------------------|--------------|---------|---------|---------|------------|--------------------|
| Frequency Range         |              | 6.01    |         | 12.50   | MHz        |                    |
| Resonant Impedance (Ro) |              |         |         | 25      | $\Omega$   |                    |
| Frequency Tolerance     |              | -0.5    |         | +0.5    | %          |                    |
| Frequency Stability     |              | -0.3    |         | +0.3    | %          | -25°C to +85°C     |
| Withstanding Voltage    |              |         |         | 100     | Vdc        | 5 secs             |
| Rating Voltage          | D.C. Voltage |         |         | 6       | Vdc        |                    |
|                         | A.C. Voltage |         |         | 15      | Vp-p.      |                    |
| Load Capacitance        |              | 12      | 15      | 18      | pF         |                    |
| Insulation Resistance   |              | 500     |         |         | M $\Omega$ | 10Vdc, 1min        |
| Operation Temperature   |              | -25     |         | +85     | °C         |                    |
| Storage Temperature     |              | -40     |         | +85     | °C         |                    |
| Aging Rate (Fosc)       |              | -0.3    |         | 0.3     | %          | From initial value |

## TEST CONDITION AND TEST CIRCUIT:



Parts shall be measured 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:



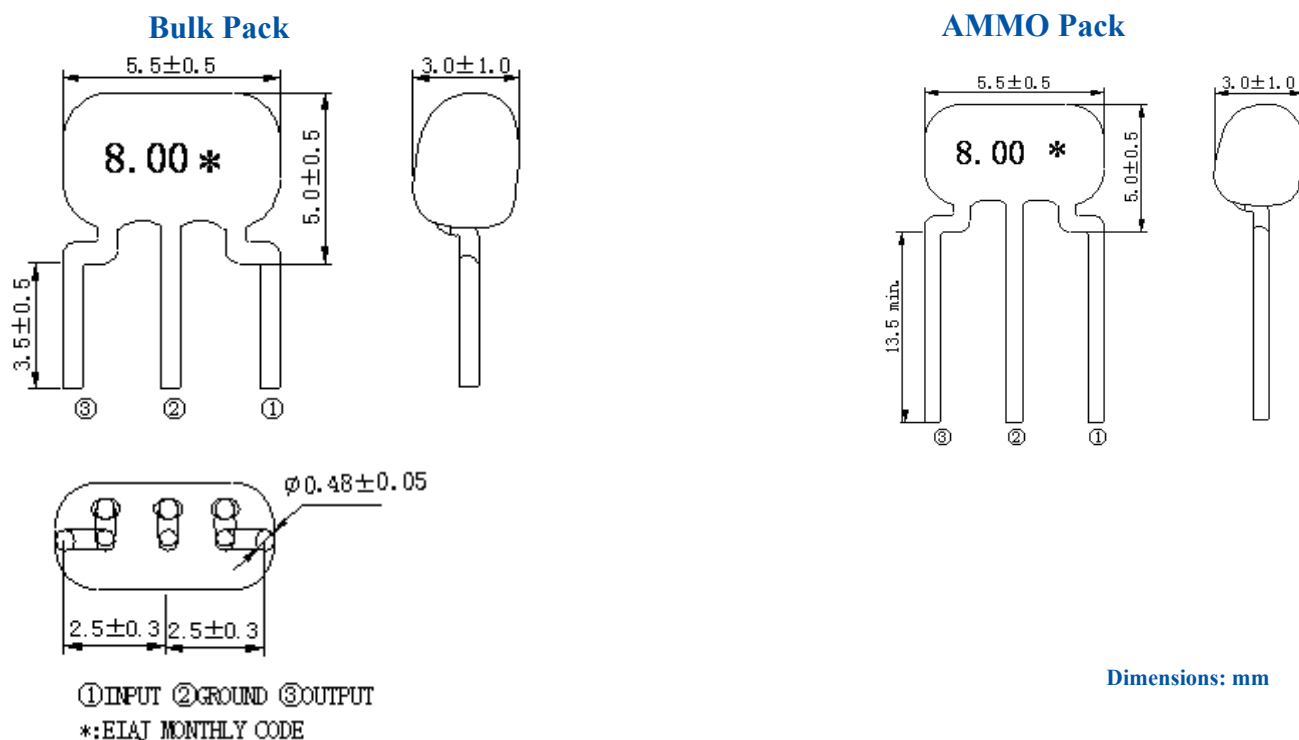
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## OUTLINE DRAWING:



### 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. Contact Abracon 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.

ABRACON IS  
ISO9001:2008  
CERTIFIED



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CORPORATION

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