

3.7 x 3.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



3.7 x 3.1mm

AWSCR-CV

Pb in ceramic
(exempt per RoHS 2002/95/EC Annex (7))

RoHS
Compliant

FEATURES:

- Low resonant impedance
- Built-in load capacitors
- IR reflow capable

APPLICATIONS:

- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances,
- Consumer electronics

STANDARD SPECIFICATIONS:

| Item | Requirement |
|---|---|
| Frequency Range | 8.00MHz to 50.00 MHz |
| Resonant Impedance | See Table 1 |
| Frequency Tolerance | ± 0.5% (at 25°C) |
| Frequency stability (-25°C~+85°C)* | ±0.4% (8.00 MHz~ 13.00 MHz) ±0.3% (13.01 MHz~ 50.00 MHz) |
| Withstanding Voltage (V) | 50 (DC , 1 min) |
| Rating Voltage (1) D.C.Voltage (2) A.C. Voltage | 6 V DC max 15 Vp-p. max |
| Built-in Capacitance | See Table 1 |
| Insulation Resistance | 100MΩ min. (10V, 1min) |
| Operating Temperature | -25°C to +85°C* |
| Storage Temperature | -55°C to +85°C |
| Aging Rate (Fosc) | ±0.3% max. (10 years) |

Table 1

| Frequency range (MHz) | Resonant Impedance (Ro)(Ω) max | Standard Built-in Capacitance C1=C2 (pF) |
|-----------------------|--------------------------------|--|
| 8.00 MHz - 13.00 MHz | 30 | 22pF± 20% |
| 13.01 MHz - 15.99 MHz | 60 | 22pF± 20% |
| 16.00 MHz - 20.00 MHz | 40 | 22pF± 20% |
| 20.00 MHz - 25.99 MHz | 40 | 10pF± 20% |
| 26.00 MHz - 50.00 MHz | 40 | 5pF± 20% |

* Please contact ABRACON for tighter stability and/or wider temperature range.

TEST CIRCUIT:



OPTIONS AND PART IDENTIFICATION:

[Left blank if standard]



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OUTLINE DRAWING:

Dimensions: mm



** A stands for the thickness of the ceramic element, which varies with the frequency

RECOMMENDED LAND PATTERN



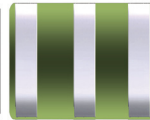
TAPE & REEL: (1,000pcs/reel)



| φ A | φ B | W | T | Pieces per reel | Carrier tape size |
|---------|-------|---------|---------|-----------------|-------------------|
| 180 ± 3 | 60min | 12.4min | 19.4max | 1000typ. | 12 |

Dimensions: mm

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REFLOW PROFILE:

Dimensions: mm



CAUTION

- 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.
- This component is not hermetically sealed. Do not clean or wash the component.
- Reflow soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during reflow Soldering.
- Do not expose the component to open flame.
- This specification applies to the functionality of the component as a single unit. Customers are advised to insure that the component is thoroughly evaluated in the particular application.
- Shelf life: The warranted shelf life of this product is six months after the delivery date under the conditions of sealed, unopened, original packaging.
- Storage conditions: If the product is to be stored for a period greater than six months after the delivery date, it is recommended that customers confirm the solderability and characteristics for the product prior to use.
- This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability, life-dependant application. 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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Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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