

3.7 x 3.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



AWSCR-CV

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

RoHS
Compliant

3.7 x 3.1mm

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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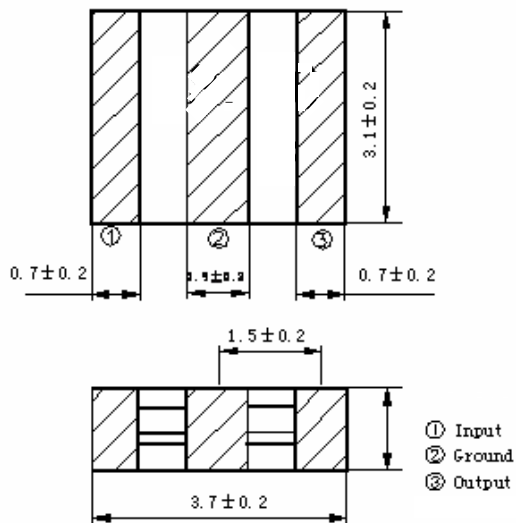
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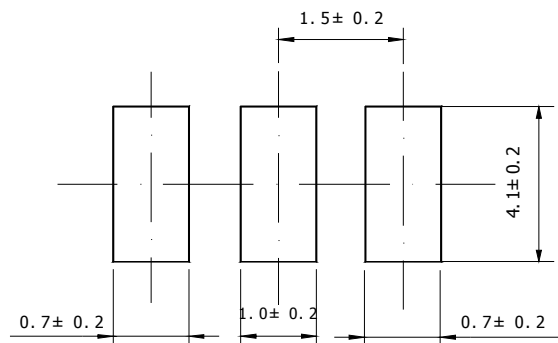
OUTLINE DRAWING:

Dimensions: mm

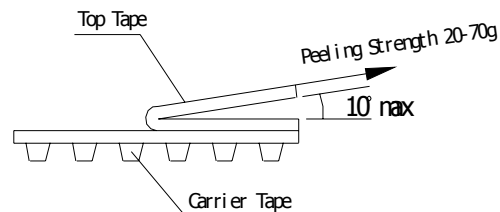
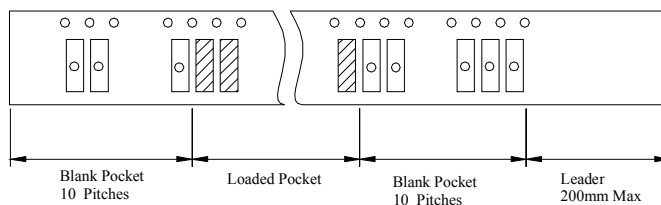
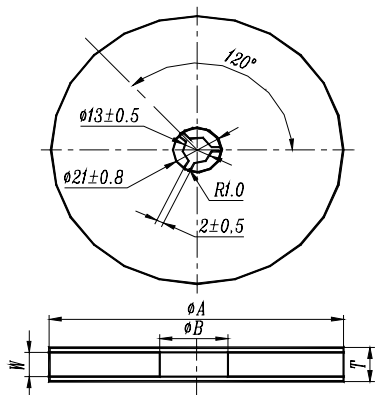


** A stands for the thickness of the ceramic element, which varies with the frequency

RECOMMENDED LAND PATTERN



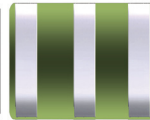
TAPE & REEL: (1,000pcs/reel)



| 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
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CERTIFIED



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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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