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:

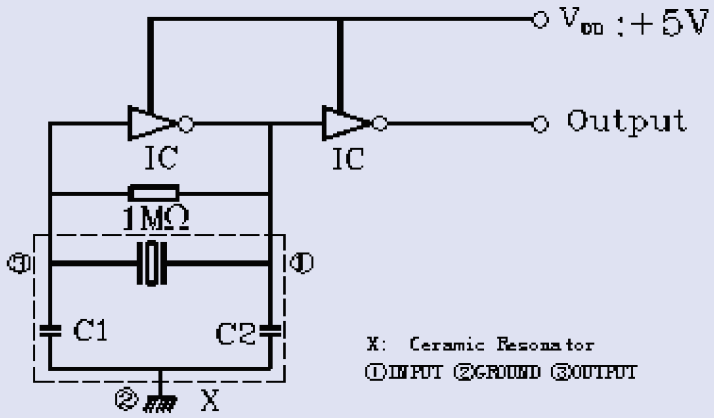
Item	Requirement
Frequency Range	8.00MHz to 50.00 MHz
Resonant Impedance	See Table 1
Frequency Tolerance	± 0.5% (at 25℃)
Frequency stability (-25℃～+85℃)*	±0.4% (8.00 MHz~ 13.00 MHz)
	±0.3% (13.01 MHz~ 50.00 MHz)
Withstanding Voltage (V)	50 (DC , 1 min)
Rating Voltage (1) D.C.Voltage	6 V DC max
(2) A.C. Voltage	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:

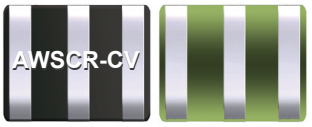
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AWSCR - XX.XXCV - C□□ - □

Frequency	Load Capacitance	Packaging
Frequency in MHz	Contact ABRACON for Built-in Capacitance options	T for Tape and Reel

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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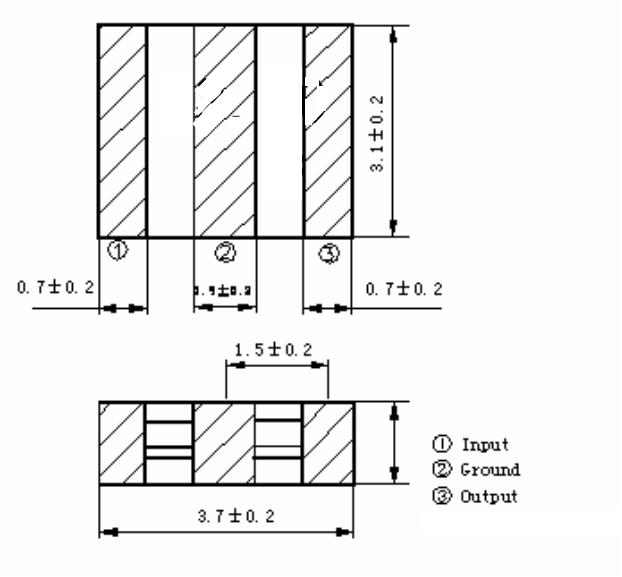
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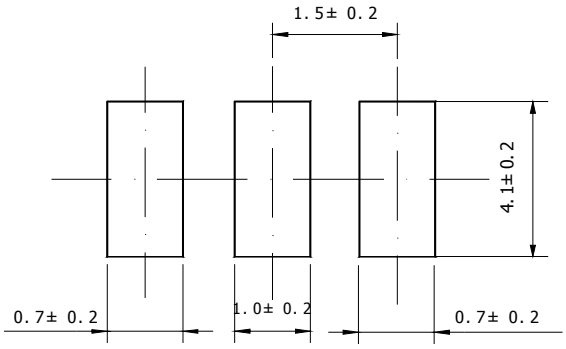
OUTLINE DRAWING:

Dimensions: mm

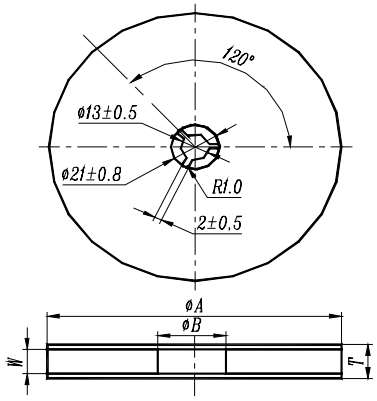


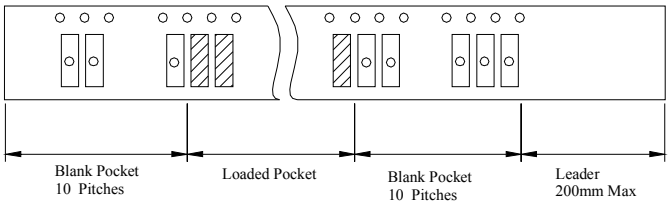
** A stands for the thickness of the ceramic element, which varies with the frequency

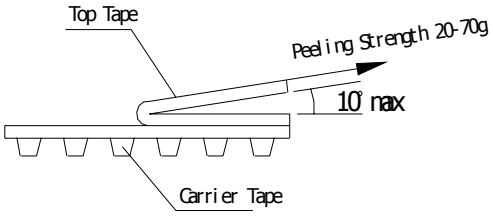
RECOMMENDED LAND PATTERN



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





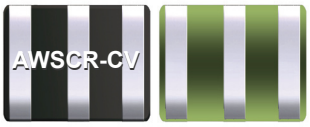


ϕ A	ϕ B	W	T	Pieces per reel	Carrier tape size
180±3	60min	12.4min	19.4max	1000typ.	12

Dimensions: mm

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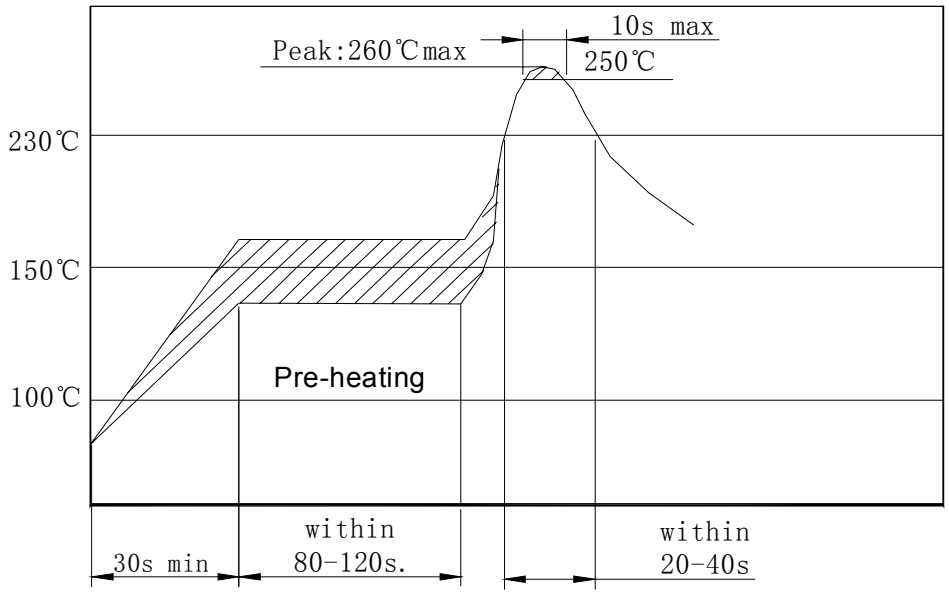
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REFLOW PROFILE:

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.

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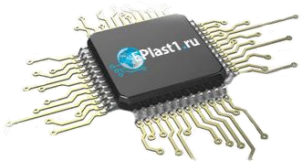
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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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