3.7 x 3.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



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

> APPLICATIONS:

Consumer electronics

FEATURES:

Low resonant impedance

AWSCR-CV

- · Built-in load capacitors
- IR reflow capable

> STANDARD SPECIFICATIONS:

Itom	Dequirement	
ltem	Requirement	
Frequency Range	8.00MHz to 50.00 MHz	
Resonant Impedance	See Table 1	
Frequency Tolerance	± 0.5% (at 25℃)	
Frequency stability	±0.4% (8.00 MHz~ 13.00 MHz)	
(-25℃~+85℃) [*]	±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%	

RoHS

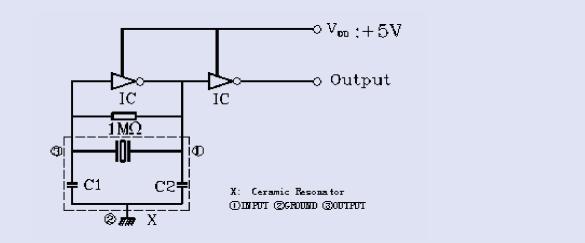
Compliant

Remote controls, Microprocessor clocks, Mobile

phones, DVD & CD-Roms, Electric appliances,

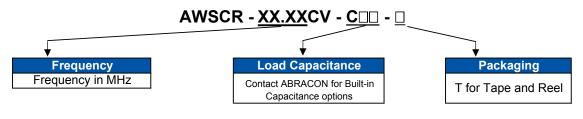
* Please contact ABRACON for tighter stability and/or wider temperature range.

> TEST CIRCUIT:



> OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)





3.7 x 3.1mm

3.7 x 3.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



3.7 x 3.1mm

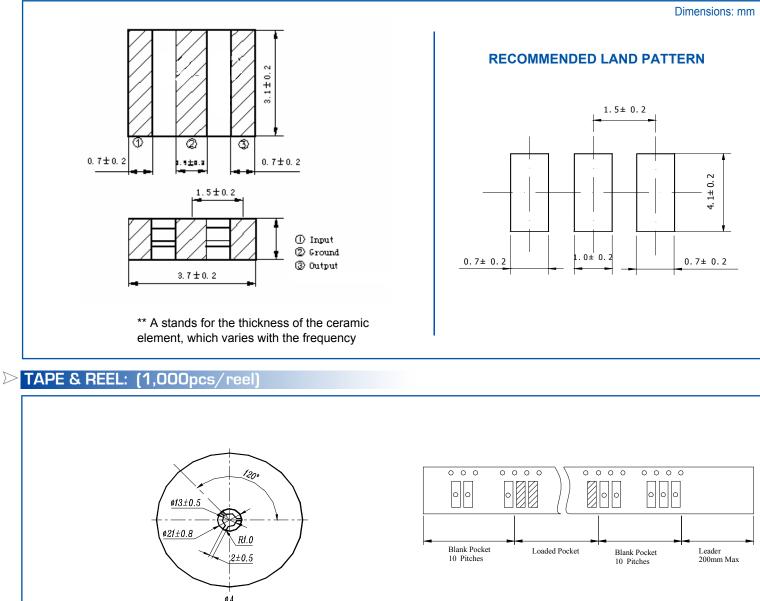
RoHS

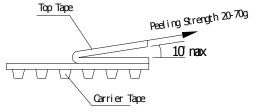
Compliant

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

OUTLINE DRAWING:

AWSCR-CV





Dimensions: mm





Ø₿

Pieces per reel

1000typ.

Carrier tape size

12

Т

19.4max

ABRACON IS ISO9001:2008

Dow

 ϕA

 180 ± 3

φB

60min

W

12.4min

3.7 x 3.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



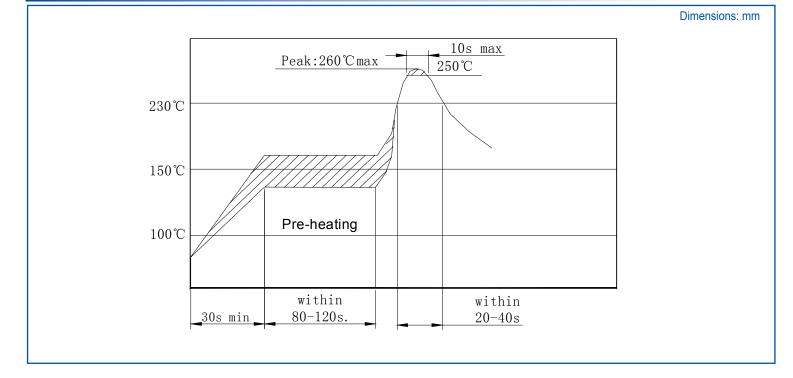
3.7 x 3.1mm

RoHS

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

REFLOW PROFILE:

AWSCR-CV



CAUTION

ABRACON IS

ISO9001:2008

CERTIFIED

Dow

- · 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.

