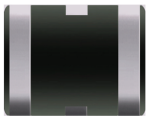
2.5X2.0mm INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-CW



2.5 x 2.0 x 1.2mm

RoHS/RoHS II compliant
Pb in ceramic, exemption (7c-I)

Moisture Sensitivity Level (MSL) – This product is not Moisture Sensitive - MSL = 1

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:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		20.00		60.00	MHz	
Resonant Impedance (Ro)				60	Ω	20.00 MHz – 25.99 MHz
				50		26.00 MHz – 35.00 MHz
				50		35.01 MHz – 60.00 MHz
Built-in Load Capacitance (C1=C2)		10 – 20%	10	10 + 20%	pF	20.00 MHz – 25.99 MHz
		5 – 20%	5	5 + 20%		26.00 MHz – 35.00 MHz
		5 – 20%	5	5 + 20%		35.01 MHz – 60.00 MHz
Frequency Tolerance @25 ºC		-0.5		0.5	%	
Frequency Stability @ -25ºC to +85ºC		-0.2		0.2	%	
Withstanding Voltage			50		V	DC , 1 min
Rating Voltage	(1) D.C.Voltage			6	V	
	(2) A.C. Voltage			15	Vp-p.	
Insulation Resistance		100			MΩ	10V, 1min
Operation Temperature		-25		85	ºC	
Storage Temperature		-55		85	ºC	
Aging Rate (Fosc) (10 years)		-0.2		0.2	%	From Initial Value

OPTIONS AND PART IDENTIFICATION:

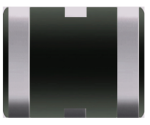
AWSCR – XX.XX CW - C□□- □

Frequency	Load Capacitance	Packaging
Frequency in MHz	Contact ABRACON for Built-in Capacitance options	T: 3000pcs/Reel

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

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AWSCR-CW

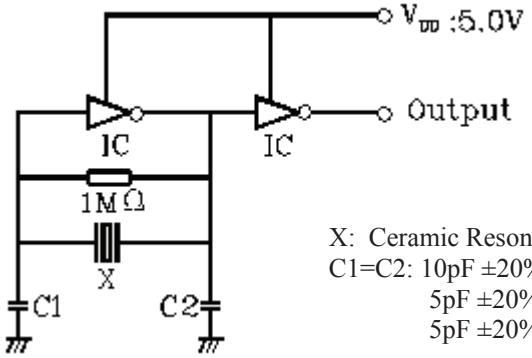


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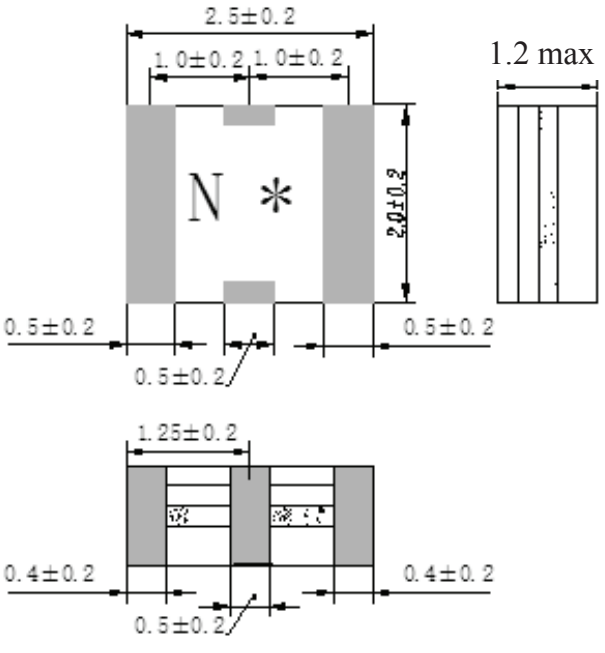
TEST CIRCUIT:

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



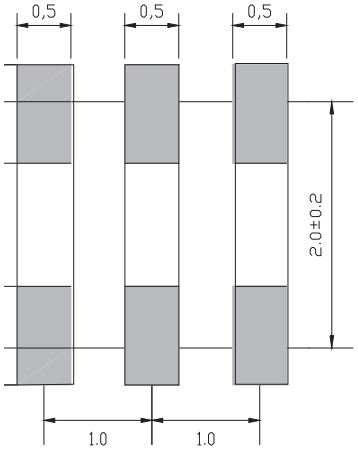
X: Ceramic Resonator
C1=C2: 10pF ±20% (20.00MHz~25.99MHz)
5pF ±20% (26.00MHz~35.00MHz)
5pF ±20% (35.01MHz~60.00MHz)

OUTLINE DIMENSION:



N: Frequency Code
*:EIAJ Monthly Code

Recommended Land Pattern



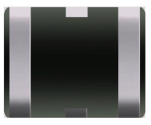
: Land Pattern

Dimension: mm

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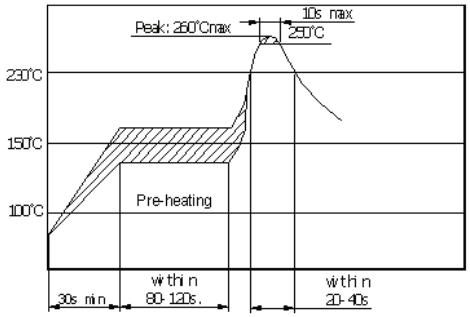
AWSCR-CW



2.5 x 2.0 x 1.2mm

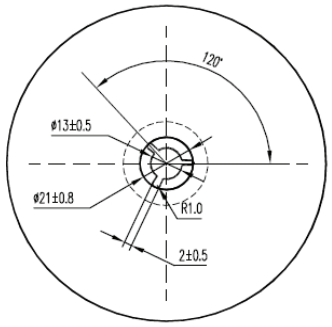
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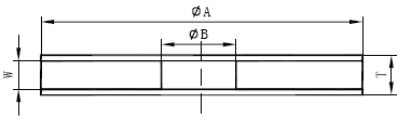
SUGGESTED REFLOW PROFILE



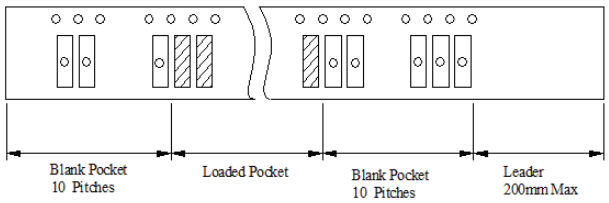
TAPE & REEL:

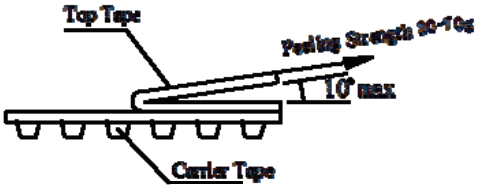
T: tape and reel (3,000pcs/reel)





ΦA	ΦB	W	T	Carrier tape size
180±3	60 min.	8.4 min	12.4 max	8





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.

Dimension: mm

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 Six Months 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.

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