3.7 x 3.1mm Industrial Grade Built-in Capacitance Ceramic Resonator

AWSCR-CV

Pb in ceramic, exemption (7c-I)

RoHS/RoHS II compliant



3.7 x 3.1 x 1.0mm

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

FEATURES:

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

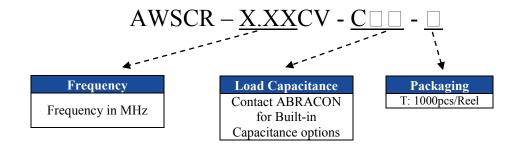
► APPLICATIONS:

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

> STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		8.00		13.00	MHz	
		16.00		60.00		
Resonant Impedance (Ro)				30	Ω	8.00 MHz – 13.00 MHz
				60		13.01 MHz – 15.99 MHz
				40		16.00 MHz – 20.00 MHz
				40		20.01 MHz – 25.99 MHz
				40		26.00 MHz – 60.00 MHz
Standard Built-in Capacitance (C1=C2)		22 - 20%	22	22 + 20%	pF	8.00 MHz – 13.00 MHz
		22 - 20%	22	22 + 20%		13.01 MHz – 15.99 MHz
		22 - 20%	22	22 + 20%		16.00 MHz – 20.00 MHz
		10 - 20%	10	10 + 20%		20.01 MHz – 25.99 MHz
		5 – 20%	5	5 + 20%		26.00 MHz – 60.00 MHz
Frequency Tolerance @25 °C		-0.5		0.5	%	
Frequency Stability @ -25°C to +85°C		-0.4		0.4		8.00 MHz – 13.00 MHz
		-0.3		0.3	%	13.01 MHz – 60.00 MHz
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			ΜΩ	10V, 1min
Operation Temperature		-25		85	°C	
Storage Temperature		-55		85	°C	
Aging Rate (Fosc) (10 years)		-0.3		0.3	%	

> OPTIONS AND PART IDENTIFICATION:







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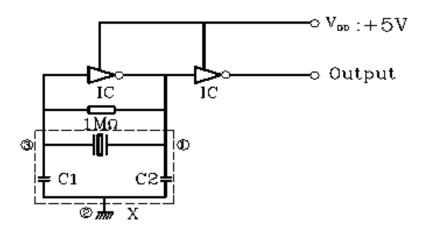
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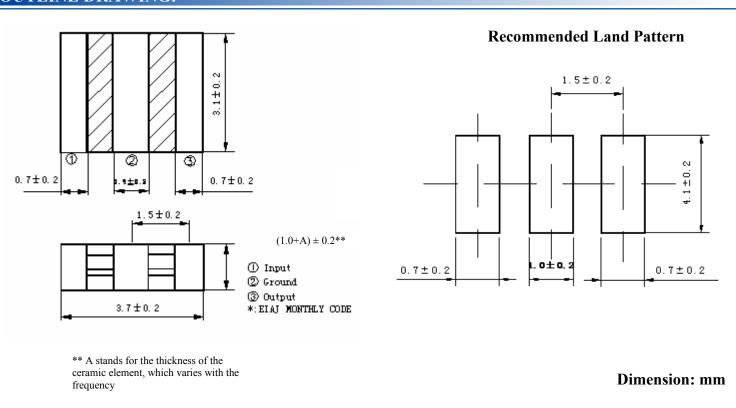
TEST CIRCUIT:

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
- 1. Input
- 2. Ground
- 3. Output

OUTLINE DRAWING:







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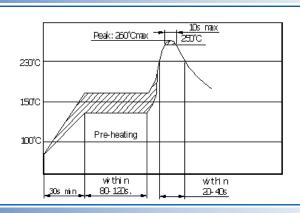
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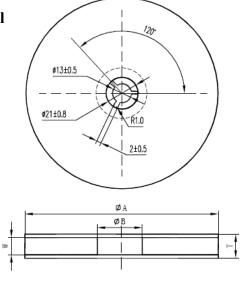
SUGGESTED REFLOW:

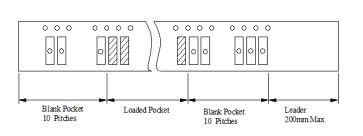


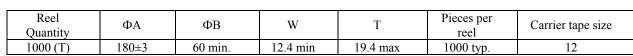
TAPE & REEL:

Packaging:

T: 1000pcs/Reel







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.

Dimensions: 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.



