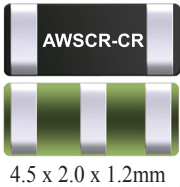


4.5 x 2.0 x 1.2 mm INDUSTRIAL GRADE BUILT-IN
CAPACITANCE CERAMIC RESONATOR

AWSCR-CR

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

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



FEATURES:

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

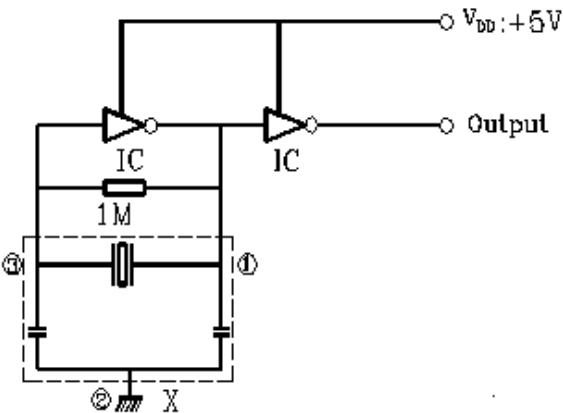
APPLICATIONS:

- Remote controls, Microprocessor clocks, DVD & CD-ROMs, Electric appliances
- Consumer electronics

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		4.00		8.00	MHz	
Resonant Impedance (Ro)				40	Ω	
Built-In Load Capacitance (C1=C2)		12	15	18	pF	
Frequency Tolerance @25 °C		-0.5		+0.5	%	
Frequency Stability (-25°C to +85°C)		-0.3		+0.3	%	
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			M Ω	10V, 1min
Operation Temperature		-25		+85	°C	
Storage Temperature		-55		+85	°C	
Aging Rate (Fosc) (10 years)		-0.2		+0.2	%	

TEST CIRCUIT:



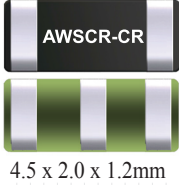
X: Ceramic Resonator
C1=C2: 15pF $\pm$ 20%
1: INPUT 2: GROUND 3: OUTPUT

Parts shall be measured under a condition (Temp.: 20 $\pm$ 15°C, Humidity: 65 $\pm$ 20% R.H.) unless the standard condition (Temp 25 $\pm$ 3°C, Humidity: 65 $\pm$ 10% R.H.) is regulated to test.

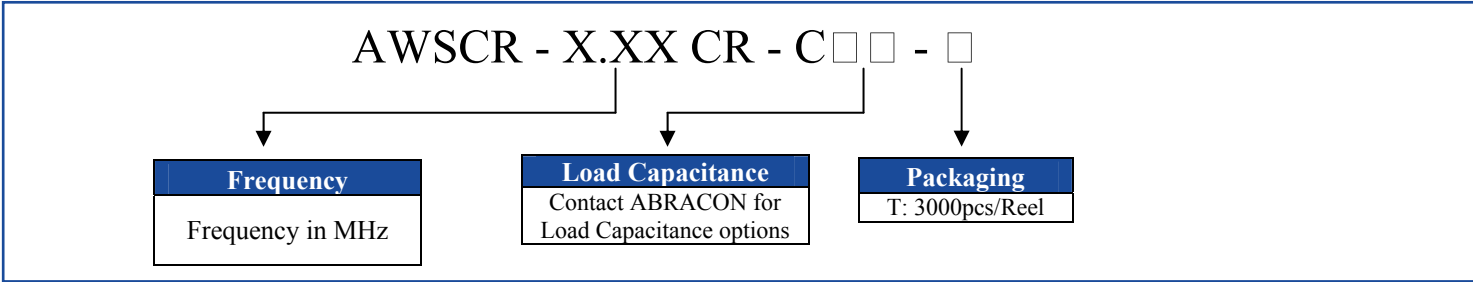
4.5 x 2.0 x 1.2 mm INDUSTRIAL GRADE BUILT-IN
CAPACITANCE CERAMIC RESONATOR

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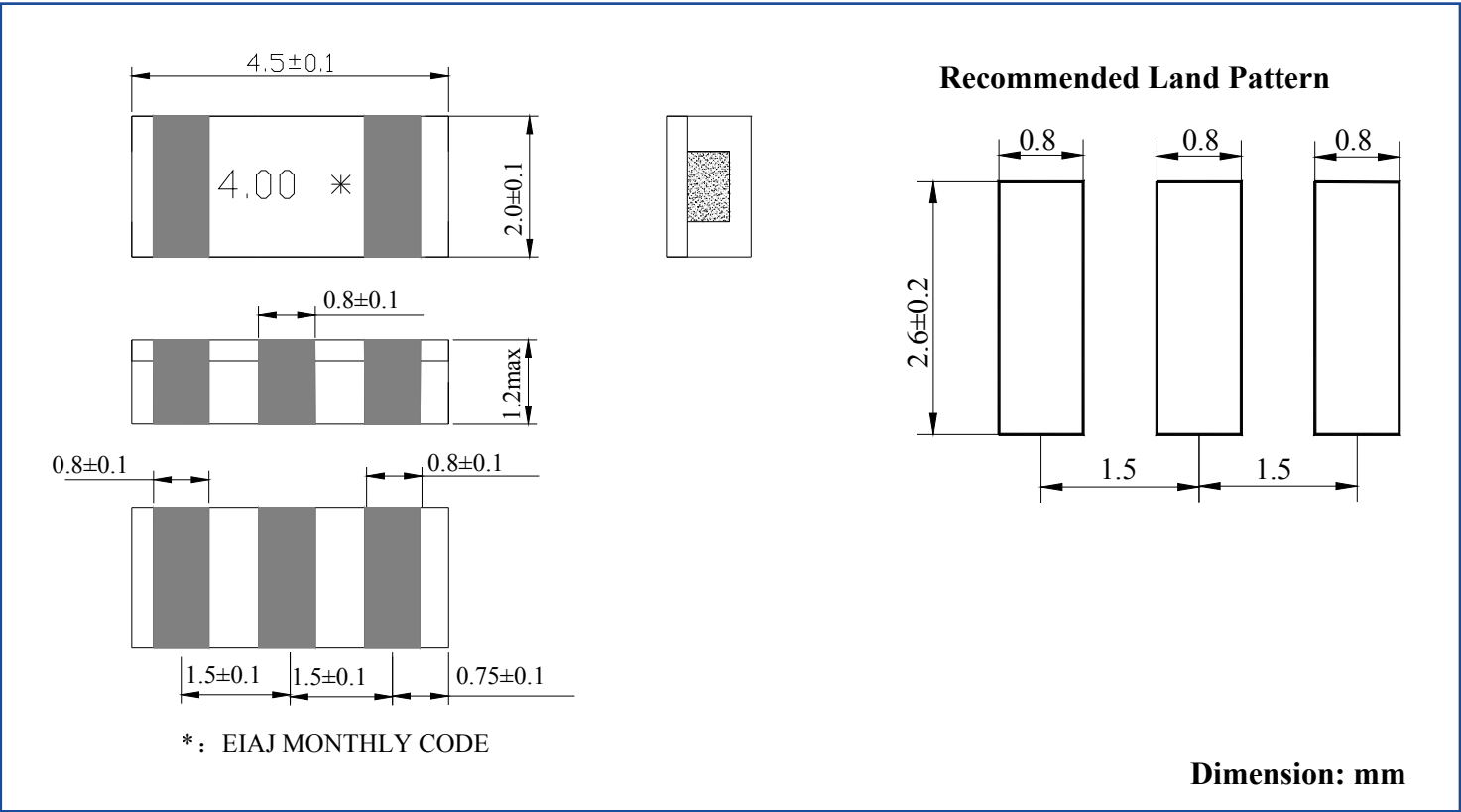
RoHS/RoHS II Compliant
Pb in ceramic, exemption (7c-I)



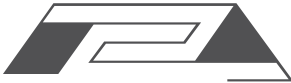
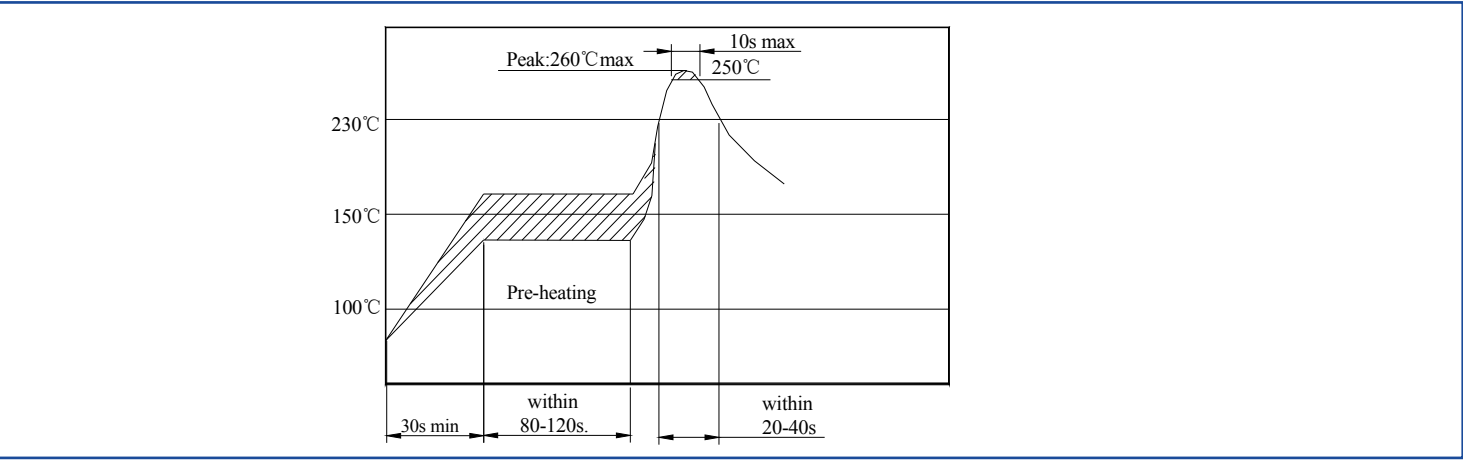
PART IDENTIFICATION:



OUTLINE DIMENSION:



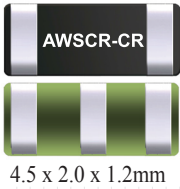
REFLOW PROFILE:



4.5 x 2.0 x 1.2 mm INDUSTRIAL GRADE BUILT-IN
CAPACITANCE CERAMIC RESONATOR

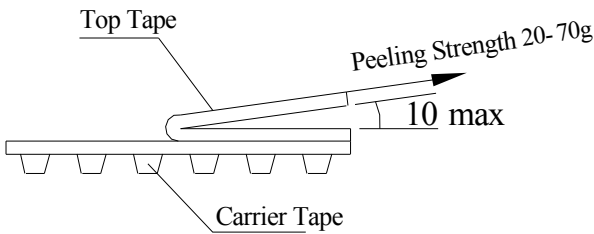
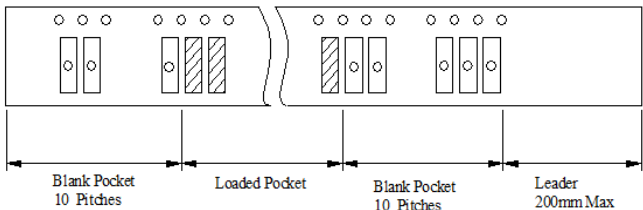
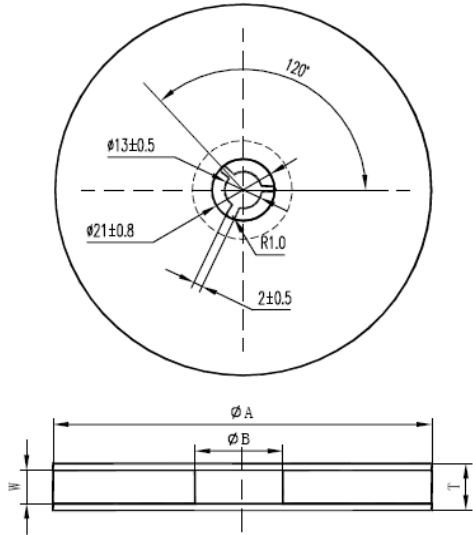
AWSCR-CR

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



TAPE & REEL:

T: 3000pcs/Reel



ΦA	ΦB	W	T	Pieces per reel	Carrier tape size
180±3	60 min.	12.4 min	19.4 max	3000 typ.	12

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.

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Application. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where componen 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.