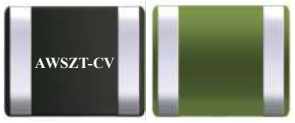
3.7 x 3.1 mm INDUSTRIAL GRADE CERAMIC RESONATOR

AWSZT-CV



3.7 x 3.1 mm

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

FEATURES:

- Low resonant impedance
- IR reflow capable
- Low cost

APPLICATIONS:

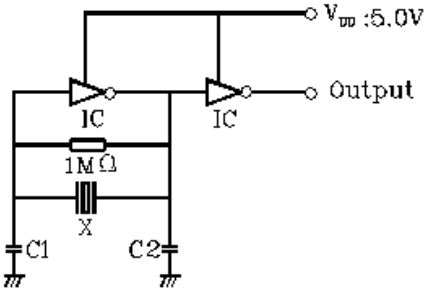
- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances
- Consumer electronics

ELECTRICAL CHARACTERISTICS:

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
				40		16.00 MHz – 20.00 MHz
				40		20.01 MHz – 25.99 MHz
				40		26.00 MHz – 60.00 MHz
Load Capacitance for Test Circuit (C1=C2)		30 – 20%	30	30 + 20%	pF	8.00 MHz – 13.00 MHz
		30 – 20%	30	30 + 20%		16.00 MHz – 20.00 MHz
		15 – 20%	15	15 + 20%		20.01 MHz – 25.99 MHz
		5 – 20%	5	5 + 20%		26.00 MHz – 60.00 MHz
Frequency Tolerance @25 ºC		-0.5		0.5	%	
Frequency Stability @ -25ºC to +85ºC		-0.4		0.4	%	8.00 MHz – 13.00 MHz
		-0.3		0.3		16.00 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			MΩ	10V, 1min
Operation Temperature		-25		85	ºC	
Storage Temperature		-55		85	ºC	
Aging Rate (Fosc) (10 years)		-0.3		0.3	%	

TEST CONDITION AND 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: 30pF ±20% (8.00MHz~13.00MHz)
30pF ±20% (16.00MHz~20.00MHz)
15pF ±20% (20.01MHz~25.99MHz)
5pF ±20% (26.00MHz~60 .00MHz)

OPTIONS & PART IDENTIFICATION:

AWSZT – XX.XXCV - □

Frequency
Frequency in MHz

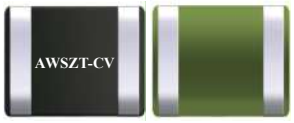
Packaging
T: 1000pcs/Reel
Blank: Bulk

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

3.7 x 3.1 mm INDUSTRIAL GRADE CERAMIC RESONATOR

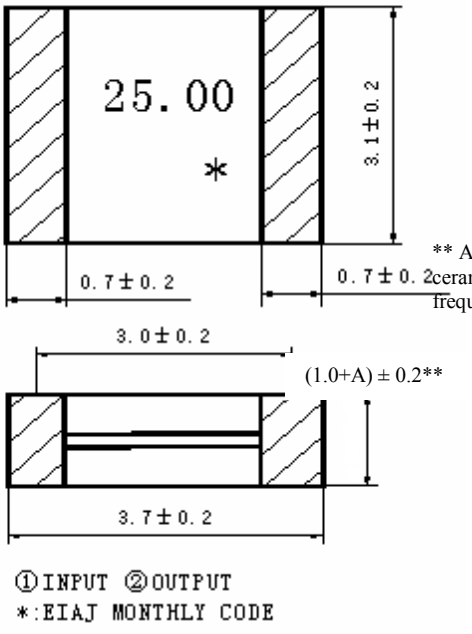
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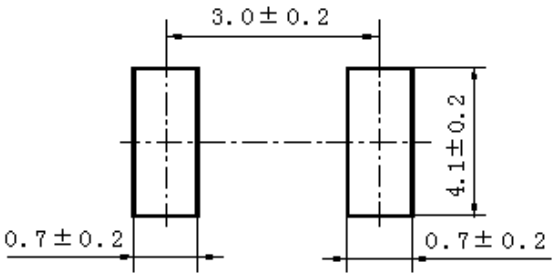
3.7 x 3.1 mm

OUTLINE DRAWING:



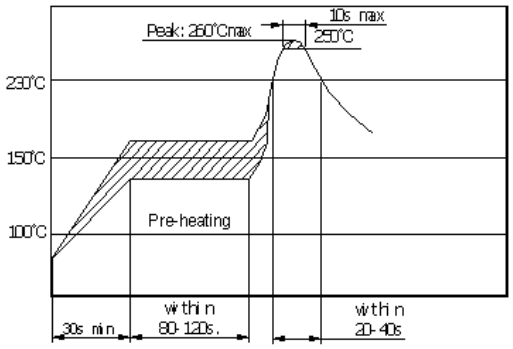
** A stands for the thickness of the ceramic element, which varies with the frequency

Recommended Land Pattern



Dimension: mm

REFLOW PROFILE:



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3.7 x 3.1 mm INDUSTRIAL GRADE CERAMIC RESONATOR

AWSZT-CV

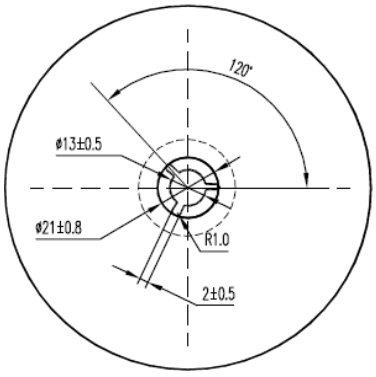
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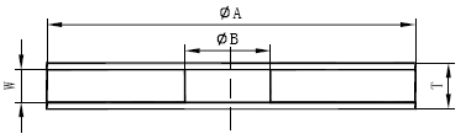


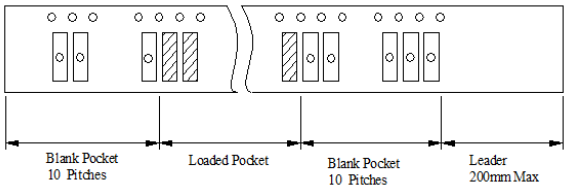
3.7 x 3.1 mm

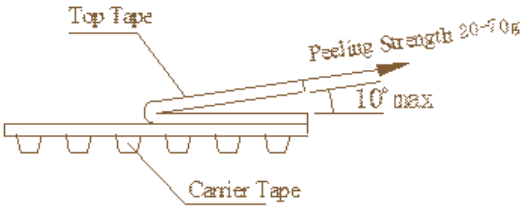
TAPE & REEL:

T: 1000pcs/Reel









Reel Quantity	ΦA	ΦB	W	T	Pieces per reel	Carrier tape size
1000 (T)	180±3	60 min.	12.4 min	19.4 max	1000 typ.	12

Dimension: mm

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.

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 1 year 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-

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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