

4.7 x 4.1mm SMD CERAMIC RESONATOR

AWSZT-MWD

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

RoHS
Compliant



4.7 x 4.1 mm

FEATURES:

- Low resonant impedance
- IR reflow capable
- Low cost

APPLICATIONS:

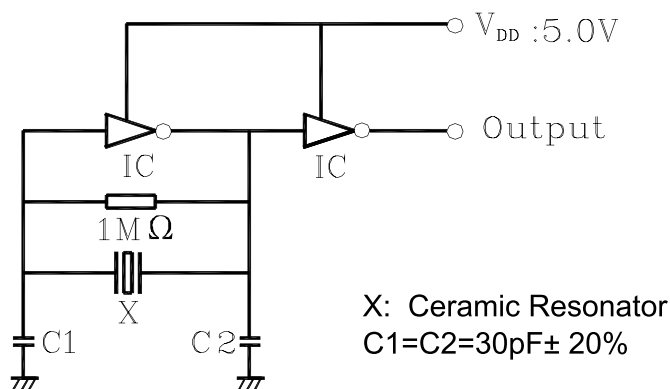
- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances, Industrial controllers
- Consumer electronics

ELECTRICAL CHARACTERISTICS:

Item	Requirement
Oscillation Frequency	6.00MHz to 13.00MHz
Resonant Impedance	30 max.
Frequency Tolerance	± 0.5%
Frequency Stability (-25°C to +85°C)	±0.4% max.*
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
Load Capacitance	30pF ± 20% (C1=C2)
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)

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

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 test.

OPTIONS & PART IDENTIFICATION:

AWSZT - XX.XXMWD - □

Frequency
Frequency in MHz

Packaging
T for Tape and Reel

ABRACON IS
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30332 Esperanza, Rancho Santa Margarita, California 92688

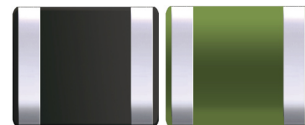
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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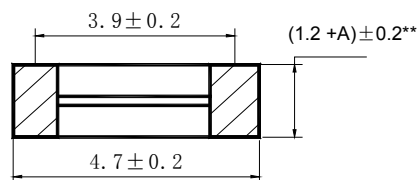
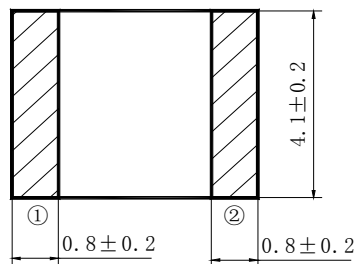
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4.7 x 4.1 mm

OUTLINE DRAWING:

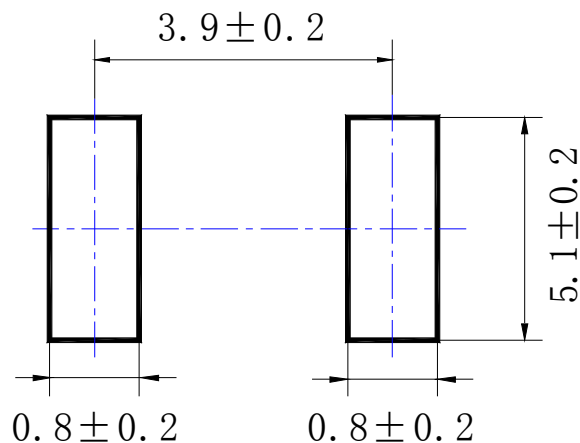
Dimensions: mm



① INPUT
② OUTPUT

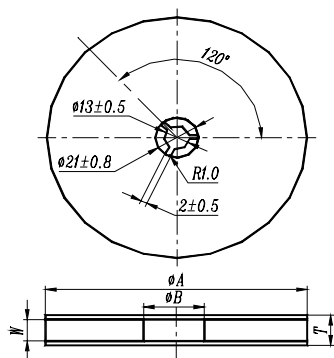
** A stands for the thickness of the ceramic element, which varies with the frequency

Recommended Land Pattern

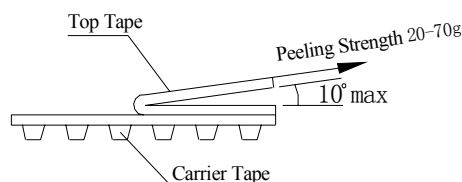
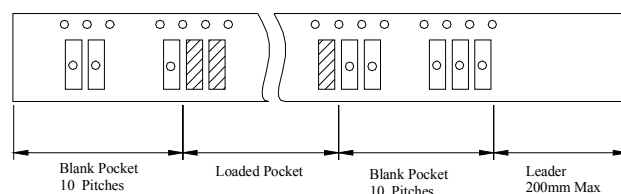


TAPE & REEL:

Dimensions: mm



Φ A	Φ B	W	T	Pieces per reel	Carrier tape size
180 ± 3	60min	12.4min	19.4max	1000typ.	12



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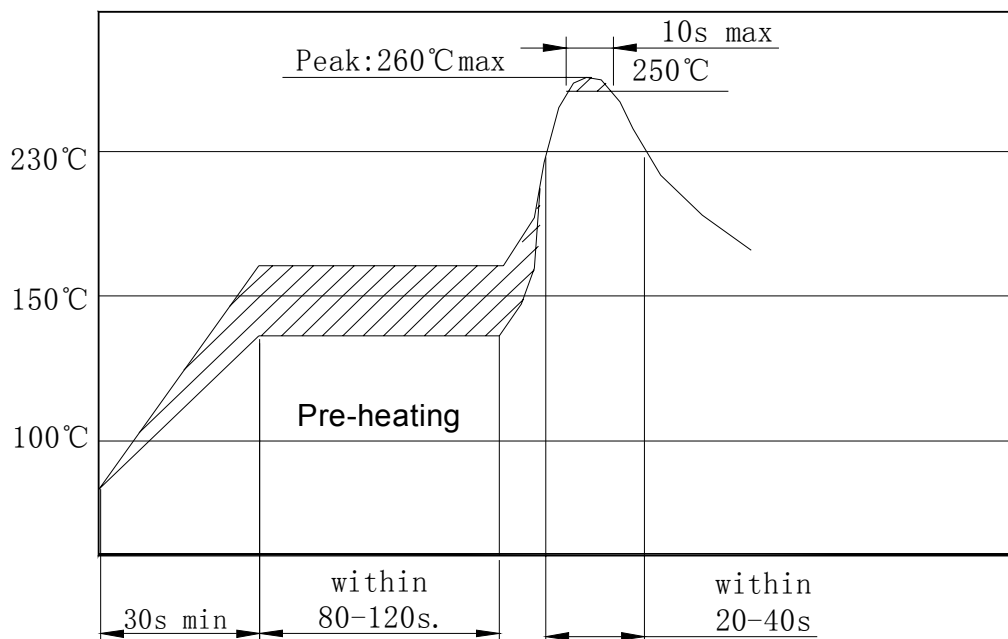
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REFLOW PROFILE:



CAUTION

- 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.

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