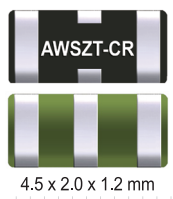


# 4.5 x 2.0 x 1.2 mm SMD CERAMIC RESONATOR

AWSZT-CR

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

**RoHS**  
Compliant



## FEATURES:

- Low resonant impedance
- IR reflow capable
- Low cost

## APPLICATIONS:

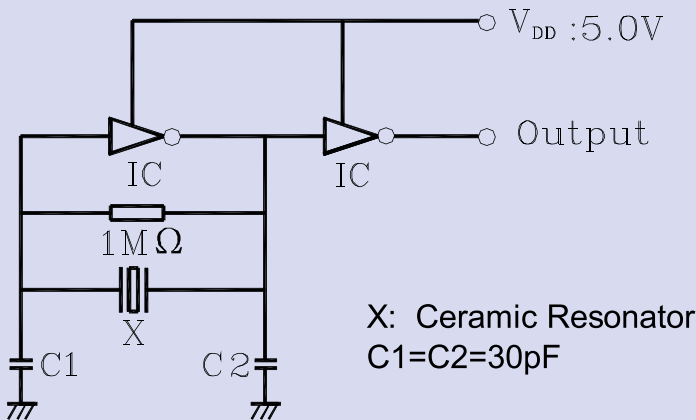
- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances, Industrial controllers
- Consumer electronics

## ELECTRICAL CHARACTERISTICS:

| Item                  | Requirement                           |
|-----------------------|---------------------------------------|
| Frequency Range       | 4.00MHz to 8.00MHz                    |
| Resonant Impedance    | 40 $\Omega$ max                       |
| Frequency Tolerance   | $\pm 0.5\%$                           |
| Frequency Stability   | $\pm 0.3\%$ max. (-25°C to +85°C) *   |
| Withstanding Voltage  | 50V (DC , 1 min)                      |
| Rating Voltage        |                                       |
| (1) D.C. Voltage      | 6 V.D.C. max                          |
| (2) A.C. Voltage      | 15 Vp-p. max                          |
| Load Capacitance      | 30pF $\pm 20\%$ (C1=C2)               |
| Insulation Resistance | 100M $\Omega$ min. (10V, 1min)        |
| Operation Temperature | -25°C to +85°C *                      |
| Storage Temperature   | -55°C to +85°C                        |
| Aging Rate (Fosc)     | $\pm 0.2\%$ max. (from initial value) |

\* 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 $\pm$ 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 measure

## OPTIONS & PART IDENTIFICATION:

AWSZT - X.XXCR - □

**Frequency**

Frequency in MHz

**Packaging**

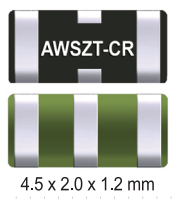
T for Tape and Reel

# 4.5 x 2.0 x 1.2 mm SMD CERAMIC RESONATOR

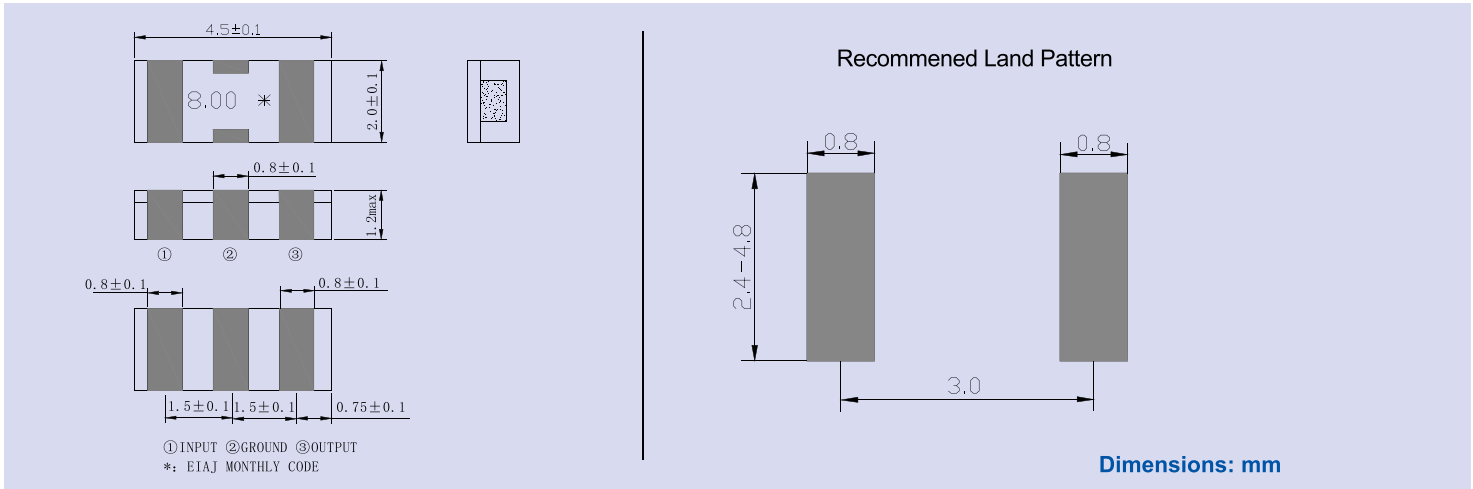
**AWSZT-CR**

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

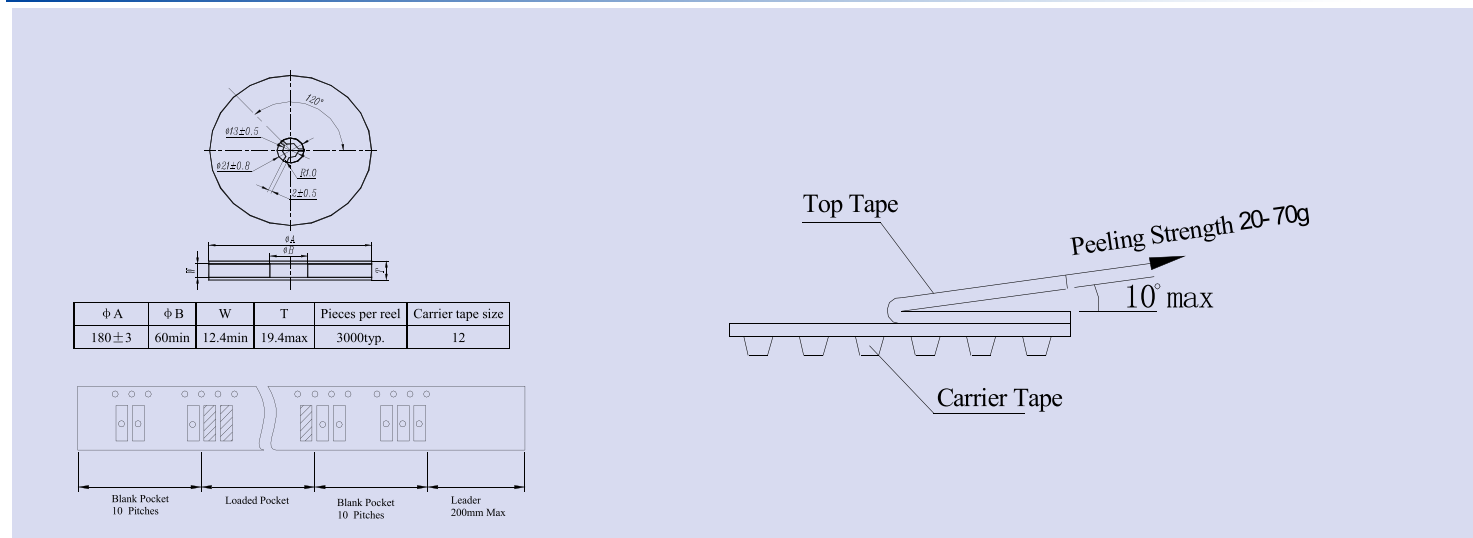
**RoHS**  
Compliant



## OUTLINE DRAWING:



## TAPE & REEL: (3,000pcs/reel)



## 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.