3.7 x 3.1 mm INDUSTRIAL GRADE CERAMIC RESONATOR

AWSZT-CV

RoHS/RoHS II Compliant

Pb in ceramic, exemption (7c-I)



FEATURES:

- Low resonant impedance
- IR reflow capable
- Low cost

APPLICATIONS:

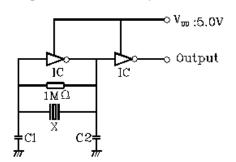
- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances
- Consumer electronics

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 °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 | % | 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 | | | ΜΩ | 10V, 1min |
| Operation Temperature | | -25 | | 85 | °C | |
| Storage Temperature | | -55 | | 85 | °C | |
| Aging Rate (Fosc) (10 years) | | -0.3 | | 0.3 | % | |

TEST CONDITION AND TEST CIRCUIT:

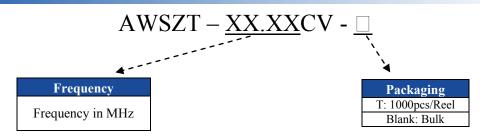
Parts shall be measured under a condition (Temp.: 20±15°C, Humidity: 65±20% R.H.) unless the standard condition (Temp: 25±3°C, Humidity: 65±10% R.H.) is regulated to measure



X: Ceramic Resonator

C1=C2: $30pF \pm 20\%$ (8.00MHz~13.00MHz) $30pF \pm 20\%$ (16.00MHz~20.00MHz) $15pF \pm 20\%$ (20.01MHz~25.99MHz) $5pF \pm 20\%$ (26.00MHz~60 .00MHz)

OPTIONS & PART IDENTIFICATION:



ABRACON IS ISO9001:2008 CERTIFIED



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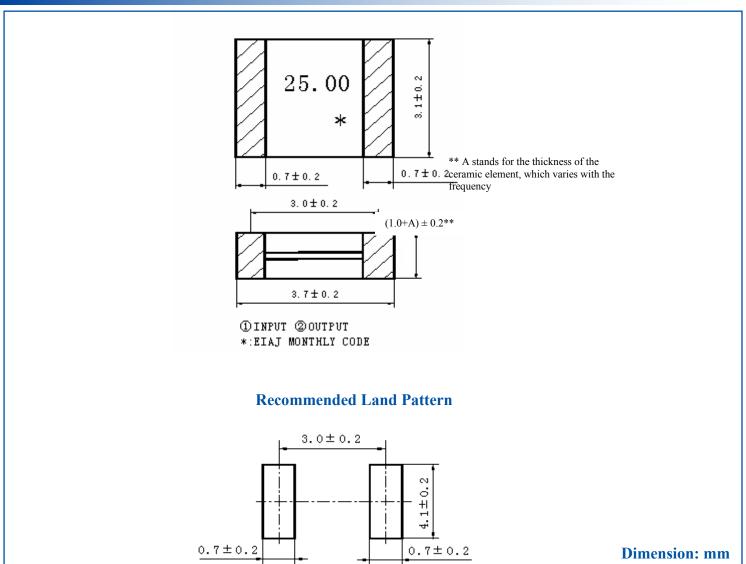
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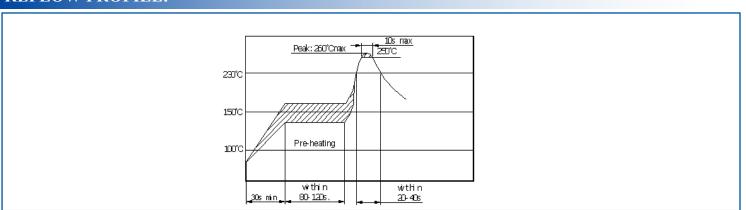
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OUTLINE DRAWING:



REFLOW PROFILE:







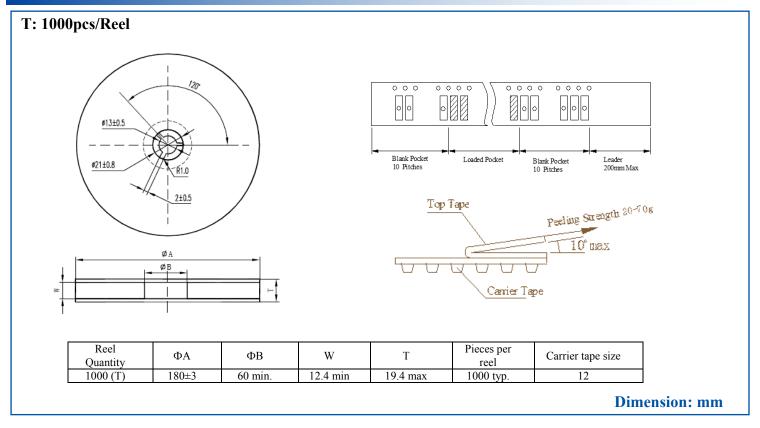
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TAPE & REEL:



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.

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-

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