

2.5 x 2.0 x 1.2 mm SMD CERAMIC RESONATOR

AWSZT-CW

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

RoHS
Compliant

AWSZT



2.5 x 2.0 x 1.2 mm

FEATURES:

- Low resonant impedance
- 240°C peak reflow capable
- Low cost

APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS:

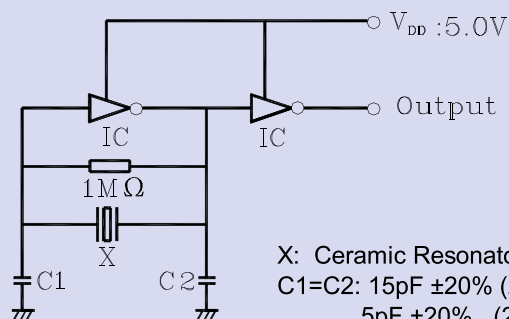
| Item | Requirement |
|-----------------------|---------------------------------|
| Frequency Range | 20.00MHz to 48.00MHz |
| Resonant Impedance | See Table 2.1 |
| Frequency Tolerance | ± 0.5% |
| Frequency Stability | ±0.2% max. (-25°C to +85°C) * |
| Withstanding Voltage | 50V (DC , 1 min) |
| Rating Voltage | |
| (1) D.C. Voltage | 6 V.D.C. max |
| (2) A.C. Voltage | 15 Vp-p. max |
| Insulation Resistance | 100MΩ min. (10V, 1min) |
| Operation Temperature | -25°C to +85°C * |
| Storage Temperature | -55°C to +85°C |
| Aging Rate (Fosc) | ±0.2% max. (from initial value) |

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

Table 2.1

| Frequency Range (MHz) | Resonant Impedance (Ro)(Ω) max | Standard Load Capacitance C1=C2 (pF) |
|-----------------------|--------------------------------|--------------------------------------|
| 20.01 MHz - 25.99 MHz | 60 | 15pF ±20% |
| 26.00 MHz - 35.00 MHz | 50 | 5pF ±20% |
| 35.01 MHz - 48.00 MHz | 50 | 5pF ±20% |

TEST CONDITION AND TEST CIRCUIT:



X: Ceramic Resonator
C1=C2: 15pF ±20% (20.01MHz~25.99MHz)
5pF ±20% (26.00MHz~48.00MHz)

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

OPTIONS & PART IDENTIFICATION:

AWSZT - XX.XXCW - □

Frequency
Frequency in MHz

Packaging
T for Tape and Reel

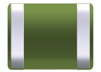
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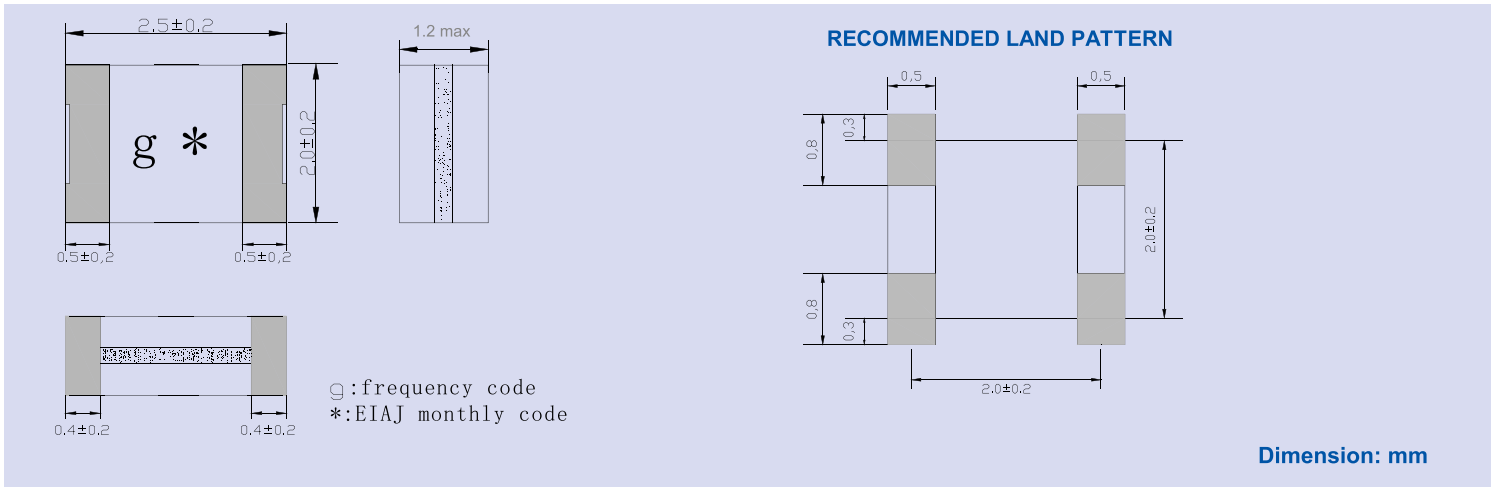
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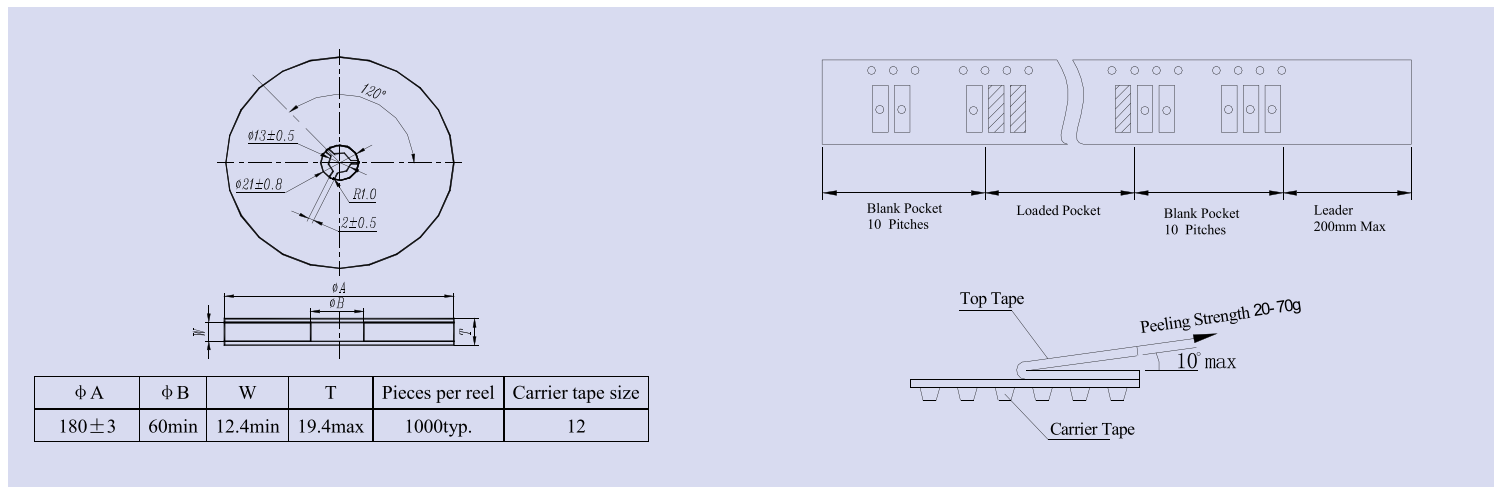


2.5 x 2.0 x 1.2 mm

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. The customer is advised to insure that the component is thoroughly evaluated in the application circuit.
- 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 the customer confirm the solderability and characteristics for the product prior to use.
- This product is not recommended for use in industrial related Automotive, Medical, Safety, Military, or other high-reliability life dependant applications. Contact Abracon Corporation prior to using this product when in doubt.