

4.7 x 4.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MTD

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

RoHS
Compliant



4.7 x 4.1mm

FEATURES:

- Low resonant impedance
- Built-in load capacitors
- IR reflow capable

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

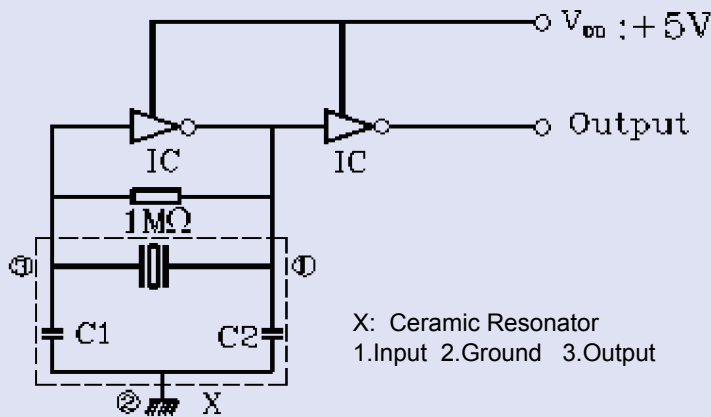
| Item | Requirement |
|---|--|
| Frequency Range | 6.00MHz to 50.00MHz |
| Resonant Impedance | See Table 2.1 |
| Frequency Tolerance | ± 0.5% |
| Frequency Stability max. (-25°C to +85°C) | ±0.4% (6.00 MHz~13.00 MHz)* ±0.3% (13.01 MHz~50.00 MHz) |
| Withstanding Voltage (V) | 50 (DC , 1 min) |
| Rating Voltage (1) D.C.Voltage (2) A.C. Voltage | 6 V.D.C. max 15 Vp-p. max |
| Built-in Capacitance | See Table 2.1 |
| Insulation Resistance | 100MΩ min. (10V, 1min) |
| Operation Temperature | -25°C to +85°C* |
| Storage Temperature | -55°C to +85°C |
| Aging Rate (Fosc) | ±0.3% max. (10 years) |

Table 2.1

| Frequency Range (MHz) | Resonant Impedance (Ro)(Ω) | Standard Built-in Capacitance C1=C2 (pF) |
|-----------------------|----------------------------|--|
| 6.00 MHz - 13.00 MHz | 30 | 22pF ±20% |
| 13.01 MHz - 16.00 MHz | 40 | 22pF ±20% |
| 16.01 MHz - 25.99 MHz | 40 | 10pF ±20% |
| 26.00 MHz - 50.00 MHz | 40 | 5pF ±20% |

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

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

OPTIONS AND PART IDENTIFICATION:



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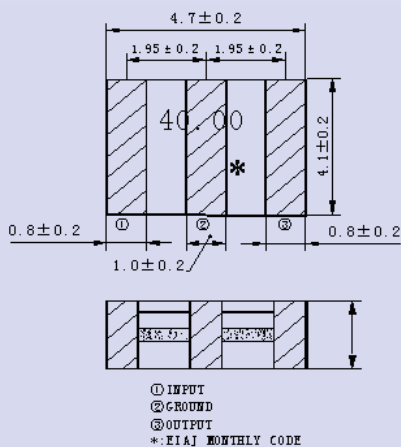
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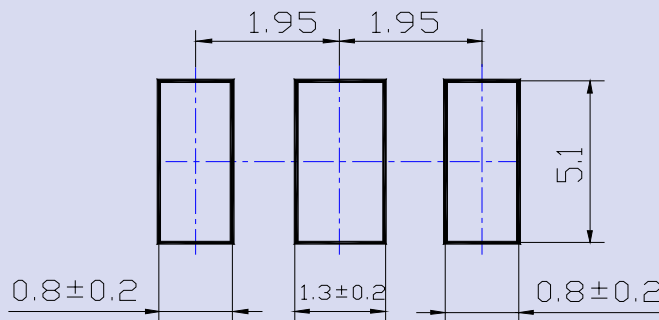


4.7 x 4.1mm

OUTLINE DRAWING:

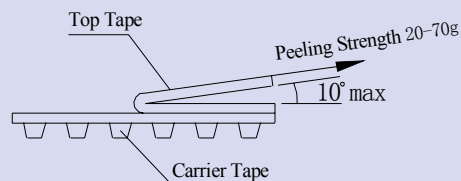
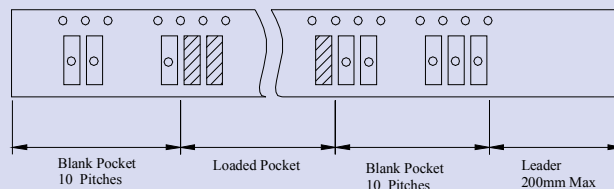
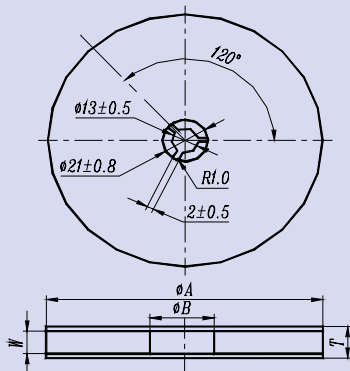


RECOMMENDED LAND PATTERN



Dimension : mm

TAPE & REEL: [1,000pcs/reel]



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

Dimension : mm

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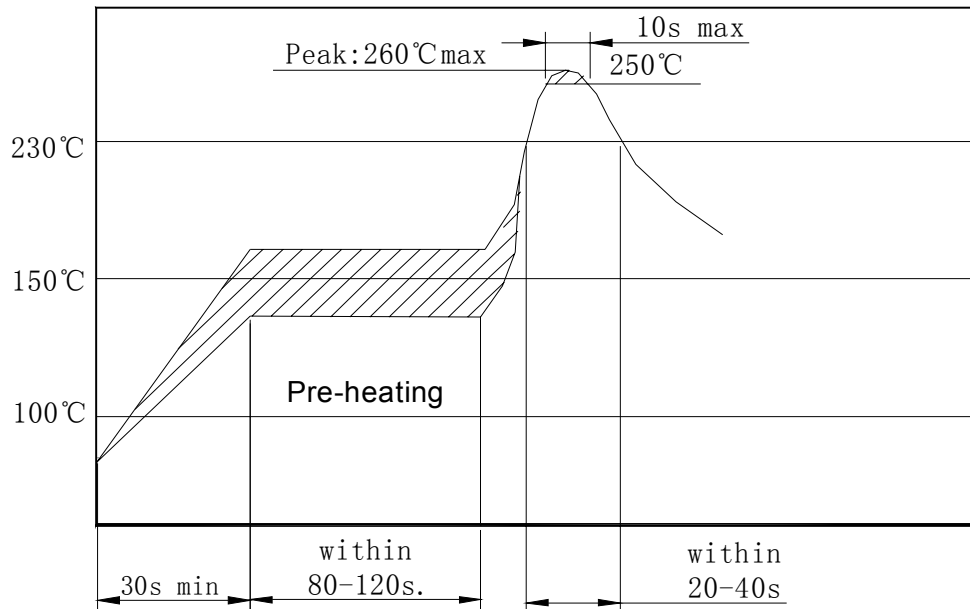
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REFLOW PROFILE:



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.

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