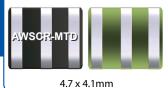
4.7 x 4.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR



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





> FEATURES:

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

> APPLICATIONS:

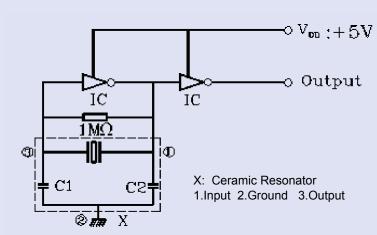
- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances, Industrial controllers
- Consumer electronics

STANDARD SPECIFICATIONS:

Item	Requirement
Frequency Range	6.00MHz to 50.00MHz
Resonant Impedance	See Table 2.1
Frequency Tolerance	± 0.5%
Frequency Stability	±0.4% (6.00 MHz~13.00 MHz)*
max. (-25°C to +85°C)	±0.3% (13.01 MHz~50.00 MHz)
Withstanding Voltage (V)	50 (DC , 1 min)
Rating Voltage	
(1) D.C.Voltage	6 V.D.C. max
(2) A.C. Voltage	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 Resonant Impedance Standard Built-in Capacitance Frequency Range (MHz) C1=C2 (pF) $(Ro)(\Omega)$ 6.00 MHz - 13.00 MHz 22pF ±20% 30 13.01 MHz - 16.00 MHz 40 22pF ±20% 10pF ±20% 16.01 MHz - 25.99 MHz 40 26.00 MHz - 50.00 MHz 40 5pF ±20%

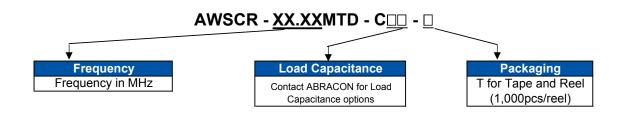
> TEST CIRCUIT:



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:







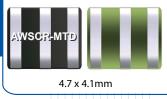
^{*} Please contact ABRACON for tighter stability and/or wider temperature range

4.7 x 4.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

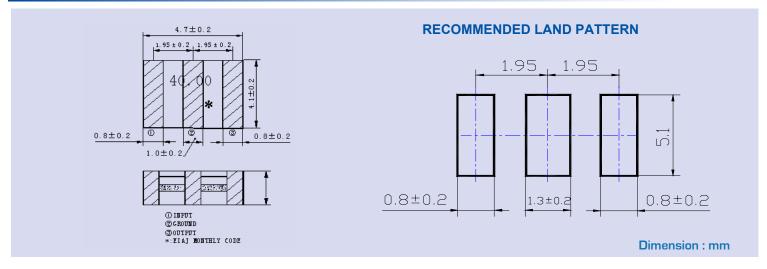


Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7))

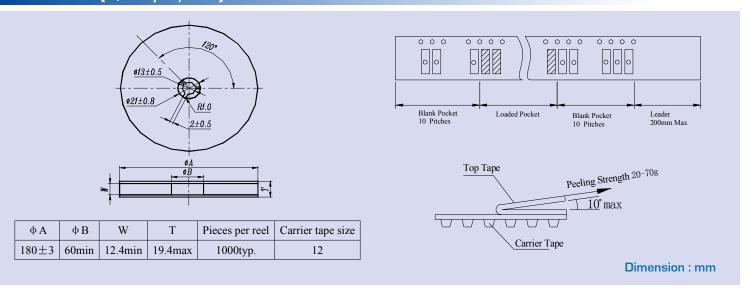




OUTLINE DRAWING:



TAPE & REEL: (1,000pcs/reel)



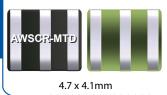


4.7 x 4.1mm BUILT-IN CAPACITANCE CERAMIC RESONATOR

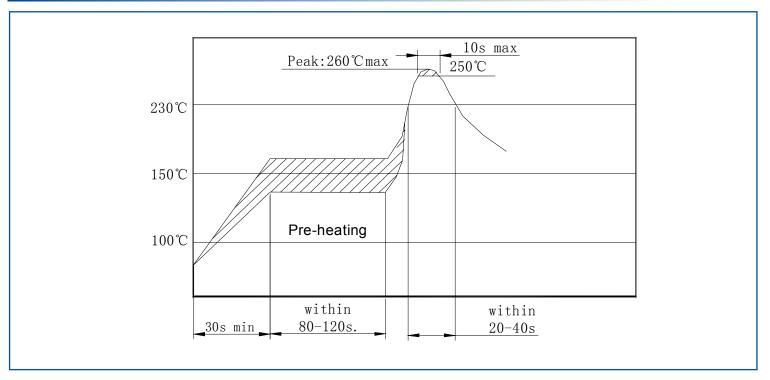
AWSCR-MTD

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





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.



