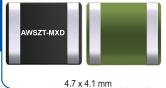
# 4.7 x 4.1mm SMD CERAMIC RESONATOR

**AWSZT-MXD** 

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





#### FEATURES:

- Low resonant impedance
- IR reflow capable
- Low cost

#### > APPLICATIONS:

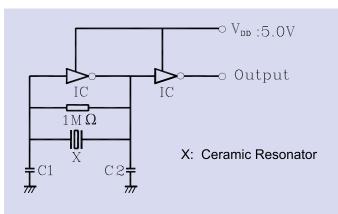
- Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances, Industrial controllers
- Consumer electronics

#### **ELECTRICAL CHARACTERISTICS:**

Item	Requirement
Oscillation Frequency	13.01MHz to 50.00MHz
Resonant Impedance	<b>40</b> (Ω)
Frequency Tolerance	± 0.5%
Frequency Stability (-25°C to +85°C)	±0.3% max.*
Withstanding Voltage (V)	50 (DC , 1 min)
Rating Voltage	
(1) D.C.Voltage	6 V DC max
(2) A.C. Voltage	15 Vp-p max
Load Capacitance	See Table 2.1
Insulation Resistance	100MΩ min. (10V, 1min)
Operating Temperature	-20°C to + 85°C*
Storage Temperature	-55°C to +85°C
Aging Rate (Fosc)	±0.3% max. (10 years)

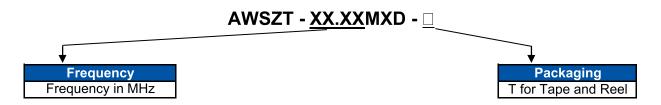
# Table 2.1 Frequency range (MHz) 13.01 MHz - 20.00 MHz 20.01 MHz - 25.99 MHz 26.00 MHz - 50.00 MHz Table 2.1 Standard Load Capacitance C1=C2 (pF) 30pF ±20% 15pF ±20% 5pF ±20%

## **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

## > OPTIONS & PART IDENTIFICATION:







<sup>\*</sup> Please contact ABRACON for tighter stability and/or wider temperature range

# 4.7 x 4.1mm SMD CERAMIC RESONATOR

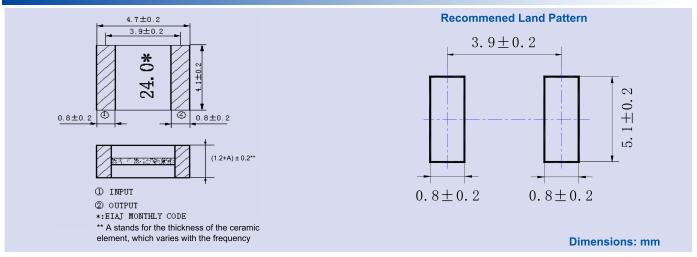


Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7))

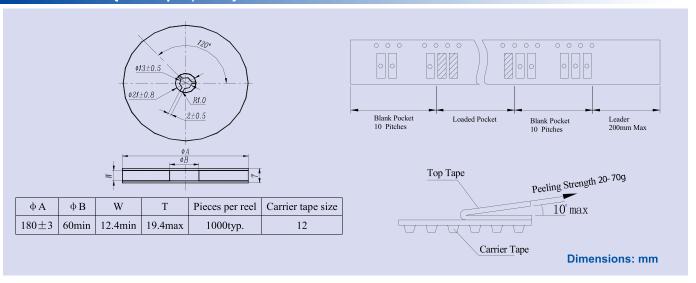




#### OUTLINE DRAWING:



## TAPE & REEL: (1,000pcs/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-dependent application. Contact Abracon Corporation prior to using this product when in doubt.



