# **LEADED CERAMIC RESONATOR**



\*C = Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)) \*C/RoHS





#### > FEATURES:

- Low resonant impedance.
- Small size, Light weight.
- Low cost timing solution.

### > APPLICATIONS:

- · Clock oscillation for microcontrollers
- Telephones
- Household electric appliances

## STANDARD SPECIFICATIONS:

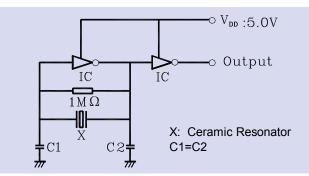
Item	Requirement		
Frequency Range	2.00MHz to 6.00MHz		
	8.01MHz to 50.00MHz		
Resonant Impedance	See Table 2.1		
Frequency Tolerance	± 0.5%		
Frequency Stability	±0.3% max. (-25°C to +85°C)*		
Withstanding Voltage	50V (DC , 1 min)		
Rating Voltage			
(1) D.C.Voltage	6 V.D.C. max		
(2) A.C. Voltage	15 Vp-p. max		
Load Capacitance	See Table 2.1		
Insulation Resistance	100M Ω min. (DC 10V)		
Operation Temperature	-25°C to +85°C*		
Storage Temperature	-55°C to +85°C		
Aging Rate (Fosc)	±0.3% max. (From initial value)		

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

Table 2.1

Frequency Range	Resonant Impedance	Load Capacitance	
(MHz)	(Ro)(Ω) max	C1=C2 (pF)	
2.00 MHz - 2.99 MHz	80		
3.00 MHz - 3.49 MHz	50		
3.50 MHz - 6.00 MHz	30	30pF± 20%	
8.01 MHz - 13.00 MHz	30		
13.01 MHz - 20.00 MHz			
20.01 MHz - 25.99 MHz		15pF± 20%	
26.00 MHz - 50.00 MHz		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±2°C, Humidity: 65±5% R.H.) is regulated to measure

## > OPTIONS & PART IDENTIFICATION:



AMMO pack lead length 13.5mm

ABRACON IS ISO 9001 / QS 9000 **CERTIFIED** 



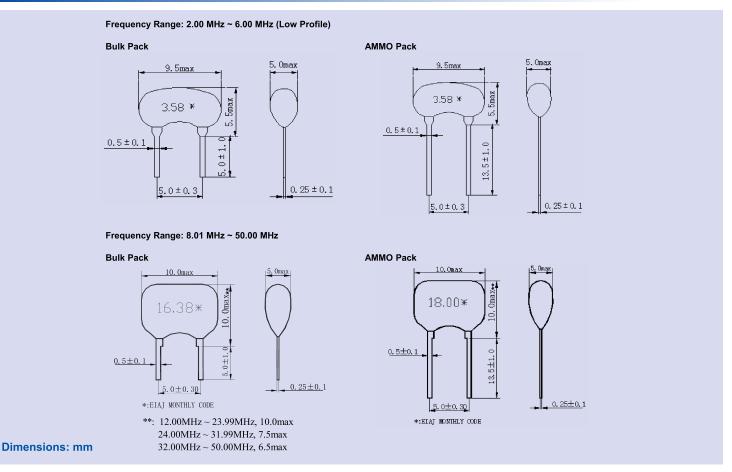
# **LEADED CERAMIC RESONATOR**



\*C = Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7)) \*C/RoHS Compliant



## **OUTLINE DRAWING:**



## **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.



