imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



LEADED CERAMIC RESONATOR

HWZT-MD

HWZ **RoHS/RoHS II Compliant**

Pb in ceramic, exemption (7c-I)



FEATURES:

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

STANDARD SPECIFICATIONS:

Typical **Parameters** Minimum Maximum Units Notes 2.00 6.00 Frequency Range MHz 12.51 60.00 80 $2.00 \text{ MHz} \sim 2.99 \text{ MHz}$ Resonant Impedance (Ro) 30 Ω $3.00 \text{ MHz} \sim 6.00 \text{ MHz}$ 30 12.51 MHz ~ 60.00 MHz 24 30 36 $2.00 \text{ MHz} \sim 6.00 \text{ MHz}$ 12.51 MHz ~ 20.00 MHz 24 30 36 Standard Load Capacitance for pF test circuit (C1=C2) 12 15 18 20.01 MHz ~ 25.99 MHz 4 5 6 26.00 MHz ~ 60.00 MHz Frequency Tolerance -0.5 +0.5% Frequency Stability -0.3 -25°C to +85°C +0.3% Withstanding Voltage 50 Vdc DC, 1 min D.C. Voltage Vdc 6 Rating Voltage A.C. Voltage 15 Vp-p. 10Vdc, 1min Insulation Resistance 100 MΩ **Operation Temperature** -25 +85°C Storage Temperature -55 +85°C Aging Rate (Fosc) -0.3 0.3 % From initial value

> APPLICATIONS:

Telephones

• Clock oscillation for microcontrollers

• Household electric appliances

TEST CONDITION AND TEST CIRCUIT:

OPTIONS & PART IDENTIFICATION:



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



ABRACON IS ISO9001:2008 CERTIFIED



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> **OUTLINE DRAWING:**



Packaging:

Bulk: 500pcs/plastic bag AMMO: 2000pcs/box

Note: upon opening the original packaging, it is recommended that the product be used within 1 year. If the product will not be used within 1 year, it is recommended that the product be re-sealed in airtight packaging according to MSL 1 requirements to maintain solderability.

CAUTION

- (1) 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.
- (2) This component is not hermetically sealed. Do not clean or wash the component.
- (3) Reflow Soldering: Do not use strong acidity flux, such as flux with chlorine content of greater than 0.2wt% during Reflow Soldering.(4) Do not expose the component to open flame.
- (5) This specification applies to the functionality of the component as a single unit.
- (6) Storage Conditions: If the product is to be stored for a period greater than 1 year after the Delivery Date, it is recommended that customers confirm the solderability and characteristics for the product prior to use.
- (7) This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability life dependant applications. ContactAbracon 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.



