

Engineering/Process Change Notice

ECN/PCN No.: 3520

	For Manufacturer			
Product Description:	Abracon Part Number / Part Series:		🛛 Series	
Thru-Hole; ceramic resonator	HWZT-MD		Part Number	
Affected Revision:	New Revision:	Application:	□ Safety	
F	EOL		🛛 Non-Safety	
Prior to Change:				
https://abracon.com/Resonators/HWZT_MD.pdf				
After Change:				
EOL				
Cause/Reason for Change:				
Production will be discontinued				
	Change Plan			
Effective Date:	Additional Remarks:			
Immediate	Additional Remarks:			
Change Declaration:				
Issued Date:	Issued By:	Issued Department	t:	
4/22/20	Stephanie Lopez	Engineering		
Approval:	Approval: Approval:			
Thomas Culhane Engineering Director	Reuben Quintanilla Quality Director	Ying Huang Purchasing Director		
	For Abracon EOL only			
Last Time Buy (if applicable): 9/15/2020	Alternate Part Nui	None		
Additional Approval:	Additional Approval:	Additional Approv	al:	
Customer Approval (If Applicable)				
Qualification Status:				
\Box Approved \Box Not accepted				
Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.				
Customer Part Number:	Customer Project:			
Company Name:	Company Representative:	Representative Sig	gnature:	
Customer Remarks:				

LEADED CERAMIC RESONATOR

HWZT-MD

RoHS/RoHS II Compliant

Pb in ceramic, exemption (7c-I)



FEATURES:

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

STANDARD SPECIFICATIONS:

ParametersMinimumTypicalMaximumUnitsFrequency Range2.006.00MHz12.5160.00MHz	Notes IHz ~ 2.99 MHz
Frequency Range MHz	117 2.00 MHz
12.51 60.00 MHZ	Ша 200 MHa
	11_{7} 2 00 M1 $_{7}$
80 2.00 M	$HZ \sim 2.99$ MHZ
Resonant Impedance (Ro)30Ω3.00 M	IHz ~ 6.00 MHz
30 12.51 M	IHz ~ 60.00 MHz
24 30 36 2.00 M	IHz ~ 6.00 MHz
Standard Load Capacitance for 24 30 36 12.51 M	IHz ~ 20.00 MHz
test circuit (C1=C2) PF PF 20.01 M	IHz ~ 25.99 MHz
4 5 6 26.00 M	IHz ~ 60.00 MHz
Frequency Tolerance-0.5+0.5%	
Frequency Stability-0.3+0.3%-25	°C to +85°C
Withstanding Voltage50VdcI	DC, 1 min
Rating Voltage 6 Vdc	
A.C. Voltage 15 Vp-p.	
Insulation Resistance 100 M Ω 10	OVde, 1min
Operation Temperature -25 +85 °C	
Storage Temperature -55 +85 °C	
Aging Rate (Fosc)-0.30.3%From	n initial value

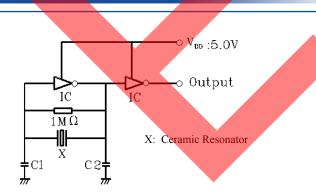
> **APPLICATIONS**:

• Telephones

Clock oscillation for microcontrollers

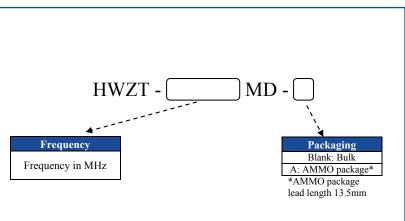
• Household electric appliances

TEST CONDITION AND TEST CIRCUIT:



Parts shall be measured under a condition (Temp.: $20\pm15^{\circ}$ C, Humidity: $65\pm20\%$ R.H.) unless the standard condition (Temp: $25\pm2^{\circ}$ C, Humidity: $65\pm5\%$ R.H.) is regulated to measure









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LEADED CERAMIC RESONATOR

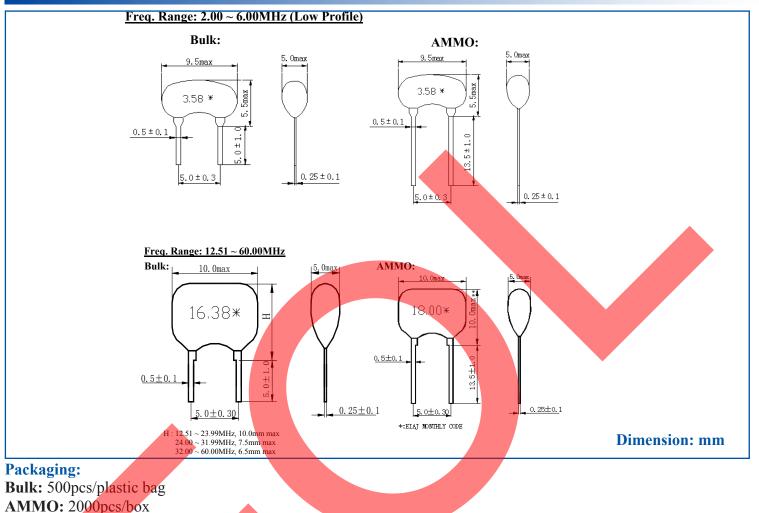
HWZT-MD

RoHS/RoHS II Compliant

Pb in ceramic, exemption (7c-I)



> **OUTLINE DRAWING:**



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.





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