

ABRACON Engineering/Process Change Notice

ECN/PCN No.: 3520

For Manufacturer									
Product Description: Thru-Hole; ceramic resonator	Abracon Part Number / Part Series: HWZT-MD		Series □ Part Number						
Affected Revision: F	New Revision: EOL	Application:	☐ Safety ☑ Non-Safety						
Prior to Change:		1							
https://abracon.com/Resonators/HWZT_MD.pdf									
After Change:									
EOL									
Cause/Reason for Change:									
Production will be discontinued									
Production will be discontinued									
	Change Plan								
Effective Date: Immediate	Additional Remarks:								
Change Declaration:									
Issued Date:	Issued By:	Issued Department	•						
4/22/20	Stephanie Lopez	Issued Department: Engineering							
Approval:	Approval:	Approval:							
Thomas Culhane Engineering Director	Reuben Quintanilla Quality Director	Ying F Purchasing							
Engineering Director	For Abracon EOL only	i di chashi	g Director						
Last Time Buy (if applicable):	Alternate Part Nun	nber / Part Series:							
9/15/2020		None							
Additional Approval:	Additional Approval:	Additional Approva	ıl:						
	Customer Approval (If Applicable)								
Qualification Status:	□ Approved □ Not accepted								
Note: It is considered approved if ther	\square Approved \square Not accepted e is no feedback from the customer 1 m	onth after ECN/PCN	is released.						
Customer Part Number: Customer Project:									
Company Name:	Company Representative:	Representative Signature:							
Customer Remarks:									

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LEADED CERAMIC RESONATOR

HWZT-MD

RoHS/RoHS II CompliantPb in ceramic, exemption (7c-I)



> FEATURES:

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

> APPLICATIONS:

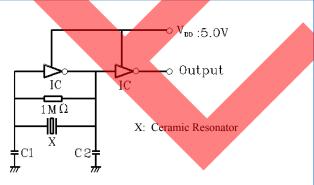
- Clock oscillation for microcontrollers
- Telephones
- Household electric appliances

STANDARD SPECIFICATIONS:

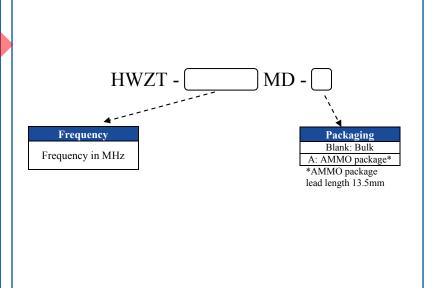
Param	eters	Minimum	Typical	Maximum	Units	Notes
Frequency Range		2.00		6.00	MHz	
		12.51		60.00		
Resonant Impedance (Ro)				80	Ω	2.00 MHz ~ 2.99 MHz
				30		3.00 MHz ~ 6.00 MHz
				30		12.51 MHz ~ 60.00 MHz
Standard Load Capacitance for test circuit (C1=C2)		24	30	36	pF	2.00 MHz ~ 6.00 MHz
		24	30	36		12.51 MHz ~ 20.00 MHz
		12	15	18		20.01 MHz ~ 25.99 MHz
		4	5	6		26.00 MHz ~ 60.00 MHz
Frequency Toler	ance	-0.5		+0.5	%	
Frequency Stabil	lity	-0.3		+0.3	%	-25°C to +85°C
Withstanding Vo	oltage			50	Vdc	DC, 1 min
Rating Voltage	D.C. Voltage			6	Vdc	
	A.C. Voltage			15	Vp-p.	
Insulation Resist	ance	100			$M\Omega$	10Vdc, 1min
Operation Tempo	erature	-25		+85	°C	
Storage Temperature		-55		+85	°C	
Aging Rate (Fosc)		-0.3		0.3	%	From initial value

TEST CONDITION AND TEST CIRCUIT:

OPTIONS & PART IDENTIFICATION:



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







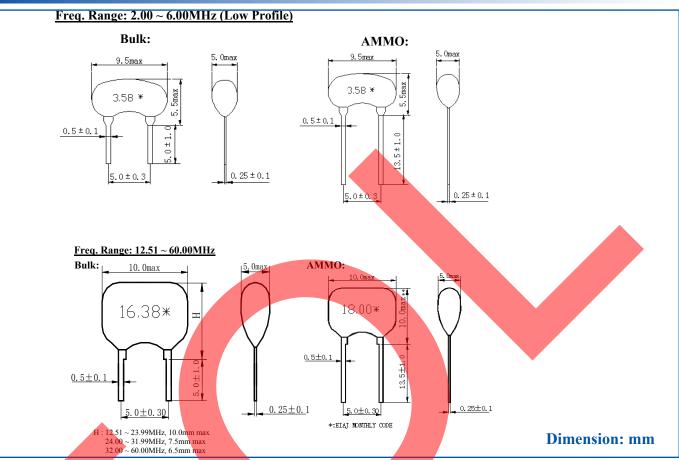
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OUTLINE DRAWING:



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.





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON:

<u>HWZT-10.00MD</u> <u>HWZT-20.00MD</u> <u>HWZT-3.58MD</u> <u>HWZT-16.00MD</u> <u>HWZT-8.00MD</u> <u>HWZT-12.00MD</u> <u>HWZT-2.00MD</u> HWZT-6.00MD HWZT-4.00MD HWZT-3.36MD HWZT-2.89MD HWZT-2.44MD HWZT-11.00MD