LEADED CERAMIC RESONATOR

HWZT-MD

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

Size Varies

FEATURES:

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

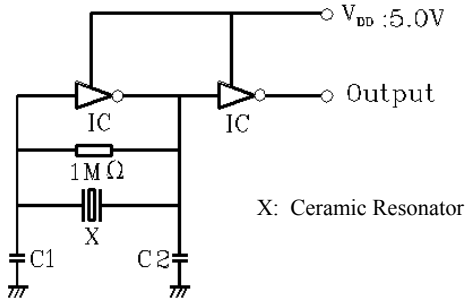
APPLICATIONS:

- Clock oscillation for microcontrollers
- Telephones
- Household electric appliances

STANDARD SPECIFICATIONS:

Parameters		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 Tolerance		-0.5		+0.5	%	
Frequency Stability		-0.3		+0.3	%	-25ºC to +85ºC
Withstanding Voltage				50	Vdc	DC , 1 min
Rating Voltage	D.C. Voltage			6	Vdc	
	A.C. Voltage			15	Vp-p.	
Insulation Resistance		100			MΩ	10Vdc, 1min
Operation Temperature		-25		+85	ºC	
Storage Temperature		-55		+85	ºC	
Aging Rate (Fosc)		-0.3		0.3	%	From initial value

TEST CONDITION AND TEST CIRCUIT:



X: Ceramic Resonator

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:

HWZT - [ ] MD - [ ]

Frequency
Frequency in MHz

Packaging
Blank: Bulk
A: AMMO package*

*AMMO package lead length 13.5mm

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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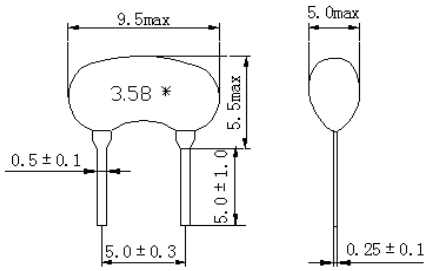
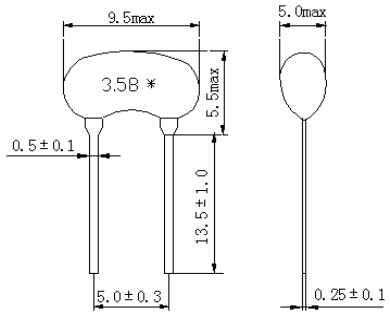
OUTLINE DRAWING:

Freq. Range: 2.00 ~ 6.00MHz (Low Profile)

Bulk:

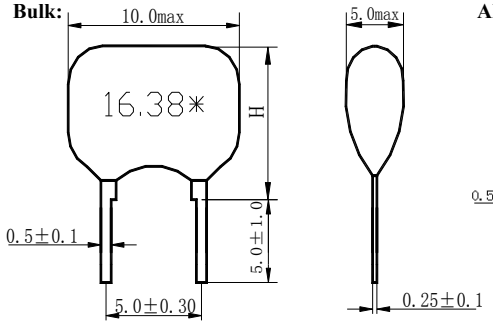


AMMO:

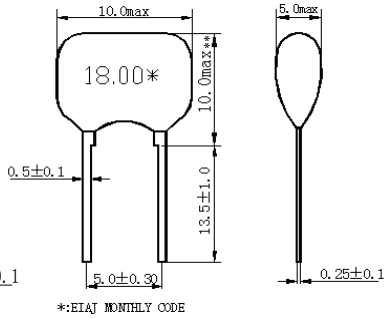


Freq. Range: 12.51 ~ 60.00MHz

Bulk:



AMMO:



H : 12.51 ~ 23.99MHz, 10.0mm max
24.00 ~ 31.99MHz, 7.5mm max
32.00 ~ 60.00MHz, 6.5mm max

Dimension: mm

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.

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