LEADED CERAMIC RESONATOR

HWZT-MD

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

Size Varies

FEATURES:

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

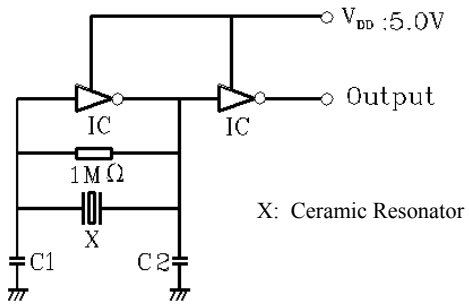
APPLICATIONS:

- 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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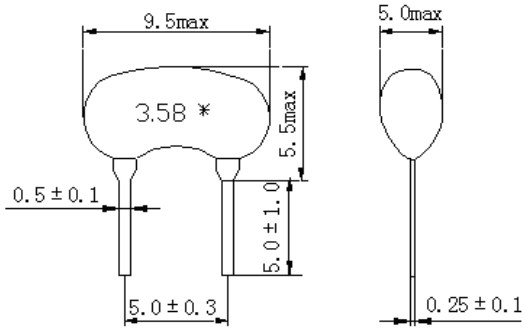
Size Varies

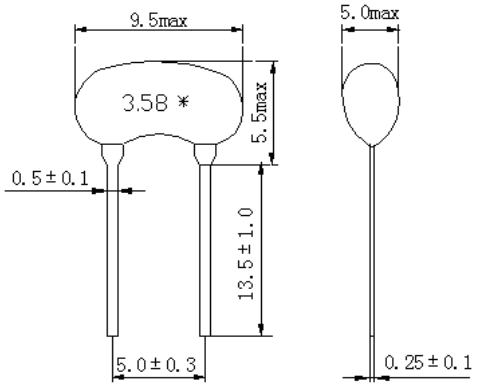
OUTLINE DRAWING:

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

Bulk:

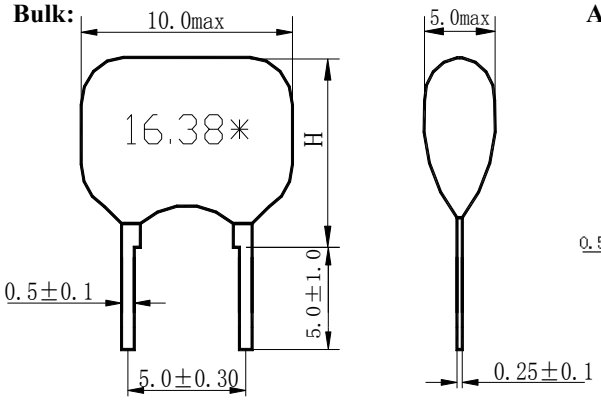


AMMO:



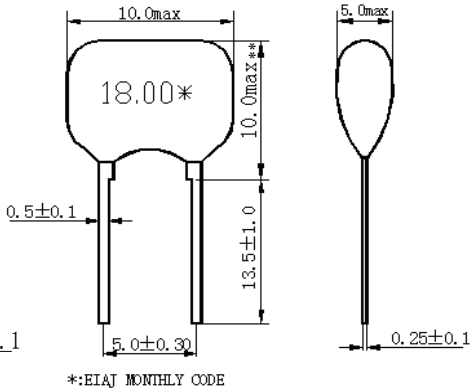
Freq. Range: 12.51 ~ 60.00MHz

Bulk:



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

AMMO:



*:EIAJ MONTHLY CODE

Dimension: mm

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) Shelf Life: The warranted Shelf Life of this product is Six Months after the Delivery Date under the conditions of sealed, unopened, original packaging.
(7) 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.
(8) This product is not recommended for use in the following applications: Automotive, Medical, Military, Safety, or any other high-reliability, life dependant applications. Contact Abracon 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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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

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