

LEADED BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWCR-MD

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



FEATURES:

- Built-in capacitors save space & components
- Low cost timing solution.
- Small size, Light weight

APPLICATIONS:

- Microprocessor clocks.
- Electric appliances.
- Remote controls.
- Industrial controllers.
- General timing.

ELECTRICAL CHARACTERISTICS:

| 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 Built-in Capacitance (C1=C2) | 24 | 30 | 36 | pF | 2.00 MHz ~ 6.00 MHz |
| | 17.6 | 22 | 26.4 | | 12.51 MHz ~ 13.00 MHz |
| | 24 | 30 | 36 | | 13.01 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 | % | -25°C to +85°C |
| 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 | °C | |
| Storage Temperature | -55 | | +85 | °C | |
| Aging Rate (Fosc) | -0.3 | | 0.3 | % | From initial value |

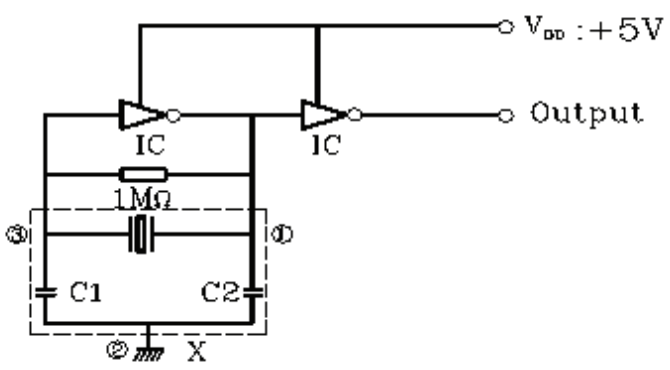
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TEST CONDITION AND TEST CIRCUIT:



- X: Ceramic Resonator
 1. Input
 2. Ground
 3. Output

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 AND PART IDENTIFICATION

AWCR - [] MD - C [] - []

Frequency
Frequency in MHz

Load Capacitance
Contact ABRACON for Built-in Capacitance options if not standard

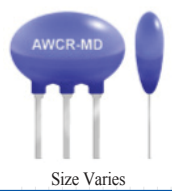
Packaging
Blank: Bulk
A: AMMO package*
*AMMO package lead length 13.5mm

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.

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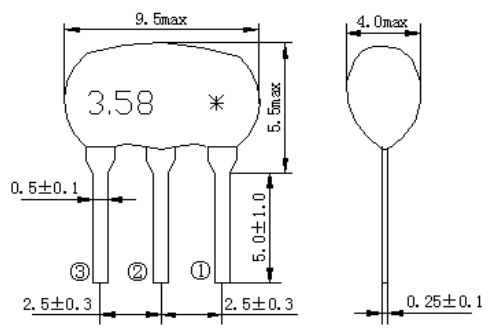


AWCR-MD

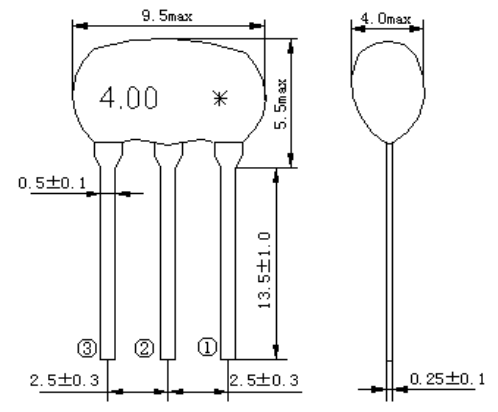
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OUTLINE DRAWING

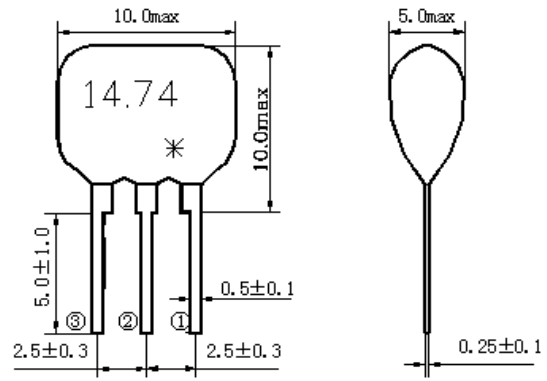
Freq. Range: 1.79 ~ 6.00MHz (Low Profile)
Bulk:



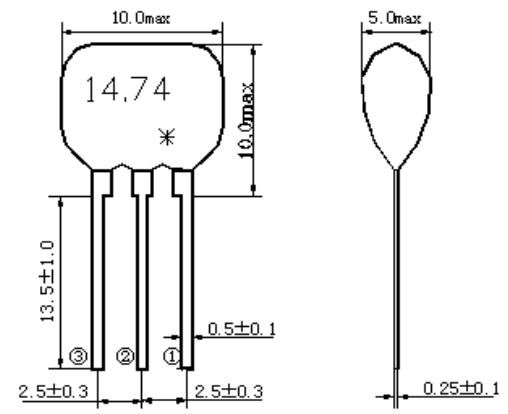
AMMO:



Freq. Range: 12.51 ~ 60.00MHz
Bulk:



AMMO:



① INPUT
② GROUND
③ OUTPUT
*:EIAJ MONTHLY CODE

① INPUT
② GROUND
③ OUTPUT
*:EIAJ MONTHLY CODE

** : 12.51 ~ 13.00MHz, 12.0mm max
13.01 ~ 60.00MHz, 10.0mm max

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. 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.

ABRACON IS
ISO9001:2008
CERTIFIED



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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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