LEADED BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWCR-MD

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

AWCR-MD

Size Varies

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	%	-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

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▷ **TEST CONDITION AND TEST CIRCUIT:**

V_{DD} : +5V

Output

IC   IC

1MΩ

C1   C2

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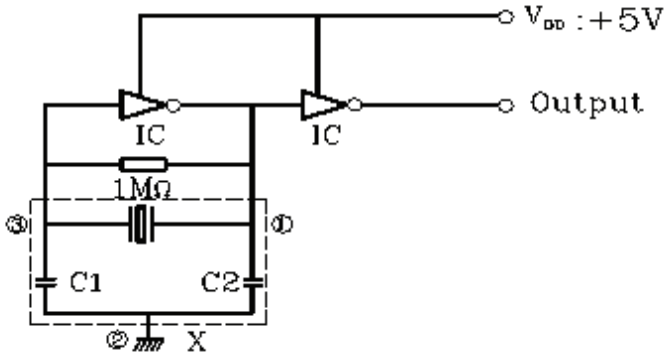
X: Ceramic Resonator
1. Input
2. Ground
3. Output

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	Load Capacitance	Packaging
Frequency in MHz	Contact ABRACON for Built-in Capacitance options if not standard	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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▷ OUTLINE DRAWING

Freq. Range: 1.79 ~ 6.00MHz (Low Profile)
Bulk:
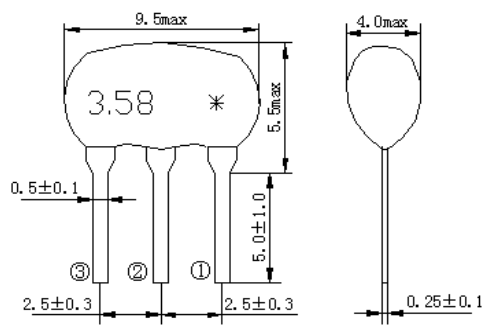
AMMO:
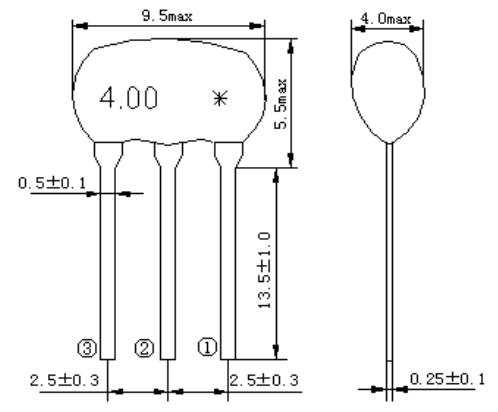
Freq. Range: 12.51 ~ 60.00MHz
Bulk:

① INPUT
② GROUND
③ OUTPUT
*:EIAJ MONTHLY CODE

AMMO:

① INPUT
② GROUND
③ OUTPUT
*:EIAJ MONTHLY CODE
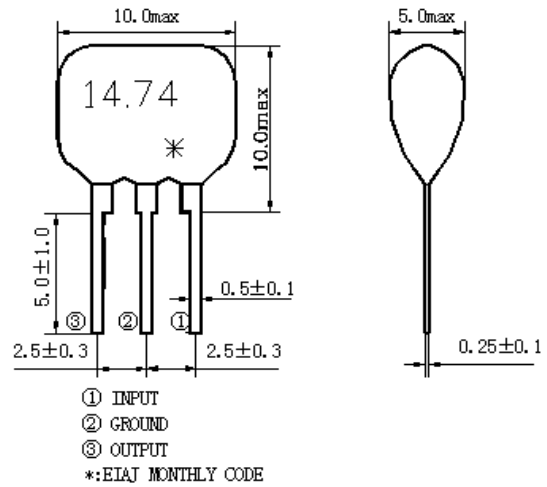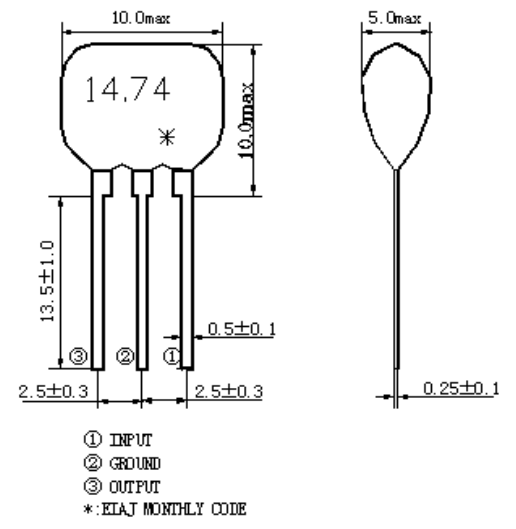
**: 12.51 ~13.00MHz, 12.0mm max
13.01 ~ 60.00MHz, 10.0mm max

▷ 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. ContactAbracon Corporation prior to using this product when in doubt.