

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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LEADED BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWCR-MD

RoHS/RoHS II CompliantPb 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			ΜΩ	10Vdc, 1min
Operation Temperature		-25		+85	°C	
Storage Temperature		-55		+85	°C	
Aging Rate (Fosc)		-0.3		0.3	%	From initial value





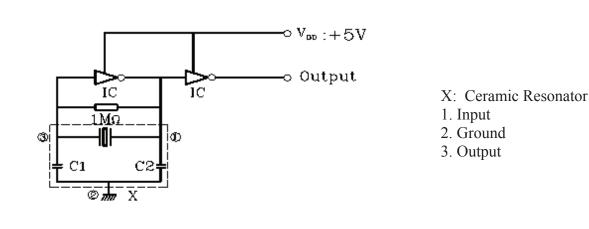
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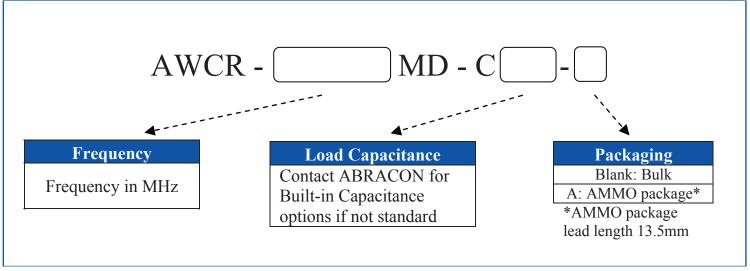


TEST CONDITION AND TEST CIRCUIT:



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



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.





LEADED BUILT-IN CAPACITANCE CERAMIC RESONATOR

 0.25 ± 0.1

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> OUTLINE DRAWING

9. 5max

9. 5max

4. 0max

0. 5±0. 1

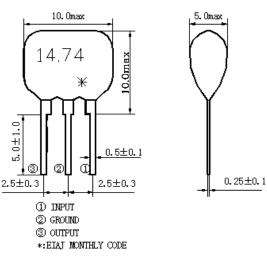
 2.5 ± 0.3

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

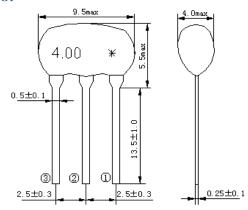
Freq. Range: $12.51 \sim 60.00 MHz$

 2.5 ± 0.3

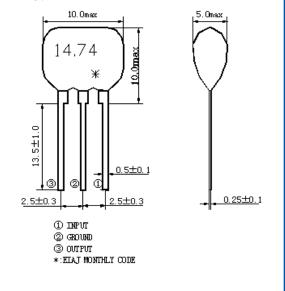
Bulk:



AMMO:



AMMO:



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.

**: 12.51 ~13.00MHz, 12.0mm max

 $13.01 \sim 60.00$ MHz, 10.0mm max

- (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.



