

Engineering/Process Change Notice

ECN/PCN No.: 3518

For Manufacturer								
Product Description: Thru-Hole	Abracon Part Number / Part Series: AWCR-MD		⊠ Series □ Part Number					
Affected Revision: G	New Revision: EOL	Application:	□ Safety⋈ Non-Safety					
Prior to Change:								
https://abracon.com/Resonators/AWCR_MD.pdf								
After Change:								
EOL								
Cause/Reason for Change:								
Production will be discontinued								
Change Plan								
Effective Date: Immediate	Additional Remarks:							
Change Declaration:								
Issued Date:	Issued By:	Issued Department:						
4/22/20	Stephanie Lopez	Engineering						
Approval: Thomas Culhane	Approval: Reuben Quintanilla	Approval:	Huang					
Engineering Director	Quality Director		g Director					
For Abracon EOL only								
Last Time Buy (if applicable): 9/15/2020	Alternate Part Nun	nber / Part Series: None						
Additional Approval:	Additional Approval:	Additional Approva	al:					
Customer Approval (If Applicable)								
Qualification Status: \Box Approved \Box Not accepted								
Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.								
Customer Part Number:	stomer Part Number: Customer Project							
Company Name:	Company Representative:	Representative Signature:						
Customer Remarks:								

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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		2.00 MHz ~ 2.99 MHz
			30	Ω	3.00 MHz ~ 6.00 MHz
			30		12.51 MHz ~ 60.00 MHz
Standard Built-in Capacitance (C1=C2)	24	30	36		2.00 MHz ~ 6.00 MHz
	17.6	22	26.4		12.51 MHz ~ 13.00 MHz
	24	30	36	pF	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 A.C. Voltage			6	Vdc	
			15	Vp-p.	
Insulation Resistance	100			$M\Omega$	10Vdc, 1min
Operation Temperature	-25		+85	°C	
Storage Temperature	-55		+85	°C	
Aging Rate (Fosc)	-0.3		0.3	%	From initial value





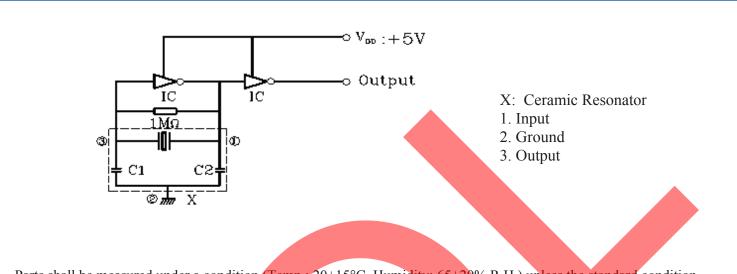
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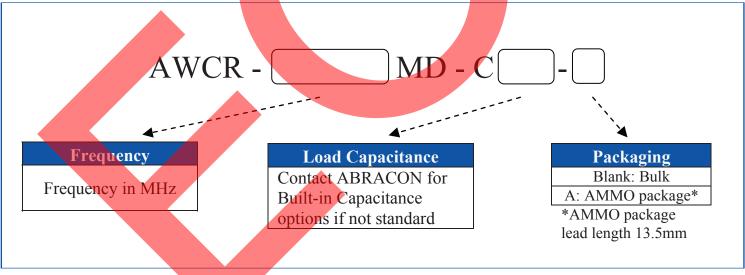


TEST CONDITION AND TEST CIRCUIT:



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.





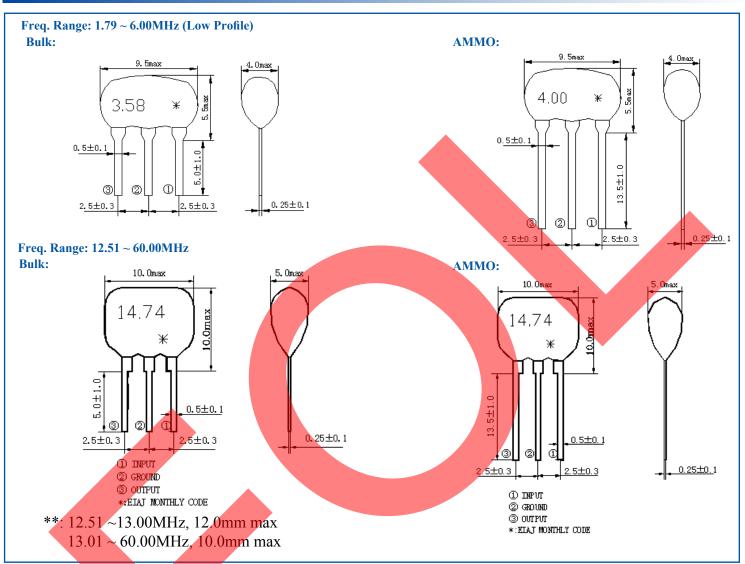
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> OUTLINE DRAWING



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.

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.



