

ECN/PCN No.:

For Manufacturer			
<b>Product Description:</b> Leaded ceramic resonator	<b>Abrakon Part Number / Part Series:</b> AWCR-MD	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number	
<b>Affected Revision:</b> G	<b>New Revision:</b> EOL	<b>Application:</b>	<input type="checkbox"/> Safety <input type="checkbox"/> Non-Safety
<b>Prior to Change:</b>			
<b>After Change:</b>			
<b>Cause/Reason for Change:</b>			
Change Plan			
<b>Effective Date:</b> 4/10/2020	<b>Additional Remarks:</b>		
<b>Change Declaration:</b>			
<b>Issued Date:</b>	<b>Issued By:</b>	<b>Issued Department:</b> Engineering	
<b>Approval:</b> <i>Syed Raza</i> Engineering VP	<b>Approval:</b> <i>Reuben Quintanilla</i> Quality Manager	<b>Approval:</b> <i>Ying Huang</i> Purchasing Director	
For Abracon EOL only			
<b>Last Time Buy (if applicable):</b> Only Configurations listed on the Appendix on next page are available for last time buy: 9/15/2020		<b>Alternate Part Number / Part Series:</b>	
<b>Additional Approval:</b>	<b>Additional Approval:</b>	<b>Additional Approval:</b>	
Customer Approval (If Applicable)			
<b>Qualification Status:</b> <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
<b>Customer Part Number:</b>		<b>Customer Project:</b>	
<b>Company Name:</b>	<b>Company Representative:</b>	<b>Representative Signature:</b>	
<b>Customer Remarks:</b>			

Part Number
AWCR-13.56MD
AWCR-16.00MD
AWCR-16.00MD-A
AWCR-2.00MD
AWCR-2.45MD
AWCR-20.00MD
AWCR-20.00MD-AMMO
AWCR-20.00MD-C15
AWCR-20.00MD-C5
AWCR-24.00MD
AWCR-3.00MD
AWCR-3.00MD-C30
AWCR-3.58MD
AWCR-3.58MD-AMMO
AWCR-3.58MD-C15
AWCR-3.69MD
AWCR-4.00MD
AWCR-4.00MD-A
AWCR-4.00MD-AMMO (2K/BOX)
AWCR-4.19MD
AWCR-4.80MD
AWCR-6.00MD

# LOW PROFILE LEADED INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWCR-RS

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.

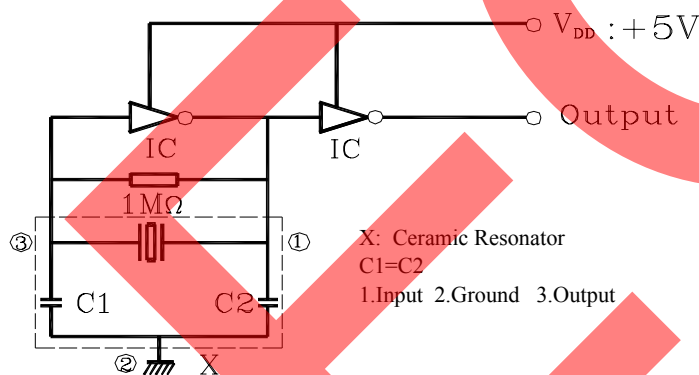
## APPLICATIONS:

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

## ELECTRICAL CHARACTERISTICS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	6.01		12.50	MHz	
Resonant Impedance (Ro)			25	$\Omega$	
Frequency Tolerance	-0.5		+0.5	%	
Frequency Stability	-0.3		+0.3	%	-25°C to +85°C
Withstanding Voltage			100	Vdc	5 secs
Rating Voltage	D.C. Voltage		6	Vdc	
	A.C. Voltage		15	Vp-p.	
Load Capacitance	12	15	18	pF	
Insulation Resistance	500			M $\Omega$	10Vdc, 1min
Operation Temperature	-25		+85	°C	
Storage Temperature	-40		+85	°C	
Aging Rate (Fosc)	-0.3		0.3	%	From initial value

## 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±3°C, Humidity: 65±10% R.H.) is regulated to measure

## OPTIONS & PART IDENTIFICATION:

AWCR -  RS - C  -

**Frequency**  
Frequency in MHz

**Load Capacitance in pF**  
Contact ABRACON for  
Load Capacitance options  
if not standard

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



