

ECN/PCN No.: 3519

For Manufacturer			
<b>Product Description:</b> Thru-Hole ceramic resonator	<b>Abracon Part Number / Part Series:</b> AWCR-RS	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number	
<b>Affected Revision:</b> E	<b>New Revision:</b> EOL	<b>Application:</b>	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety
<b>Prior to Change:</b>  <a href="https://abracon.com/Resonators/AWCR_RS.pdf">https://abracon.com/Resonators/AWCR_RS.pdf</a>			
<b>After Change:</b>  EOL			
<b>Cause/Reason for Change:</b>  Production will be discontinued			
Change Plan			
<b>Effective Date:</b> Immediate	<b>Additional Remarks:</b>		
<b>Change Declaration:</b>			
<b>Issued Date:</b> 4/22/20	<b>Issued By:</b> Stephanie Lopez	<b>Issued Department:</b> Engineering	
<b>Approval:</b> Thomas Culhane Engineering Director	<b>Approval:</b> Reuben Quintanilla Quality Director	<b>Approval:</b> Ying Huang Purchasing Director	
For Abracon EOL only			
<b>Last Time Buy (if applicable):</b> 9/15/2020		<b>Alternate Part Number / Part Series:</b> None	
<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>			

# 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.

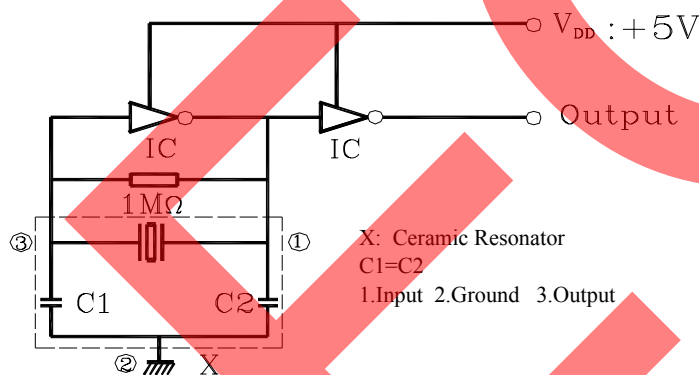
## APPLICATIONS:

- 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



