# INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

**AWSCR-MV** 

Pb in ceramic (exempt per RoHS 2002/95/EC Annex (7))





#### FEATURES:

- Low resonant impedance
- High stability type
- Excellent environmental resistance
- Reflow capable

- Industrial grade
- Built-in load capacitance

#### > APPLICATIONS:

 Remote controls, Microprocessor clocks, Mobile phones, DVD & CD-Roms, Electric appliances, Industrial controllers

#### **ELECTRICAL CHARACTERISTICS:**

Item	Requirement	
Frequency Range	8.00MHz to 50.00 MHz	
Resonant Impedance	40Ω max.	
Frequency Tolerance		
and stability	See Table 2.1	
Withstanding Voltage	50 (DC , 1 min)	
Rating Voltage		
(1) D.C.Voltage	10 V.D.C. max	
(2) A.C. Voltage	15 Vp-p. max	
Load Capacitance	see Table 2.2 for standard	
	see Option Code for options	
Insulation Resistance	500MΩ min. (10V, 1min)	
Operating Temperature	See Table 2.1	
Storage Temperature	-40°C to +125°C	
Aging Rate (Fosc)	±0.3% max. (10 years)	

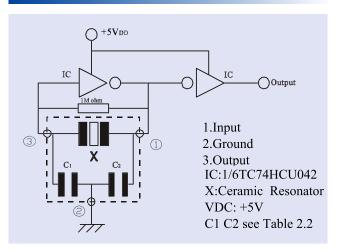
#### **TABLE 2.1**

Part Number ( <u>XX.XX</u> denotes freq. in MHz)	Frequency Tolerance at 25°C	Frequency Stability at Operating Temp.	Operating Temperature	Resonant Impedance (Ω) max
AWSCR-XX.XXMVS				
8.00 MHz - 13.00 MHz				30
13.01 MHz - 50.00 MHz	±0.3%	± 0.3%	-20° to +80°C	40
AWSCR-XX.XXMVD				
8.00 MHz - 13.00 MHz				30
13.01 MHz - 50.00 MHz	±0.3%	± 0.5%	-40° to +85°C	40
AWSCR-XX.XXMVA				
8.00 MHz - 13.00 MHz				30
13.01 MHz - 50.00 MHz	±0.3%	± 0.7%	-40° to +125°C	40

**TABLE 2.2** 

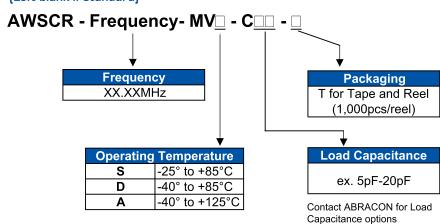
Freq (MHz)	CI=C2 pf (±20%)	
8.00~13.00	20	
13.01~16.00	20	
16.01~40.00	10	
40.01~50.00	5	

#### **TEST CIRCUIT:**



#### **OPTIONS & PART IDENTIFICATION:**

(Left blank if standard)



ABRACON IS ISO 9001 / QS 9000 CERTIFIED



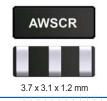
Visit www.abracon.com for Terms & Conditions of Sale **Revised: 08.20.07** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

### INDUSTRIAL GRADE BUILT-IN CAPACITANCE **CERAMIC RESONATOR**

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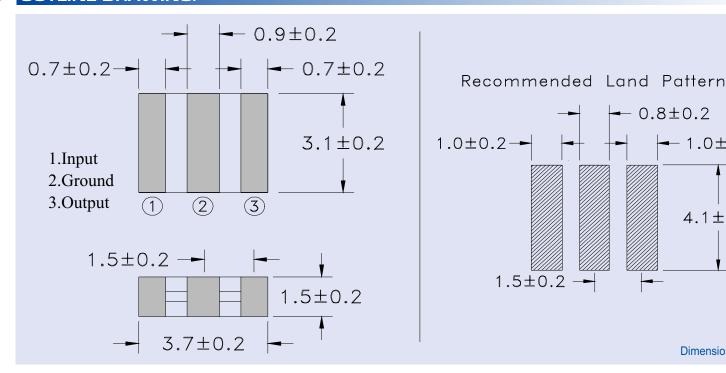
**-** 1.0±0.2

 $4.1 \pm 0.2$ 

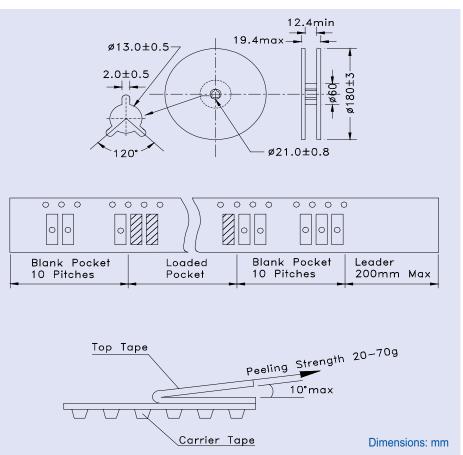
Dimensions: mm

 $-0.8\pm0.2$ 

#### **OUTLINE DRAWING:**



### TAPE & REEL: T = Tape and reel 1,000pcs/reel







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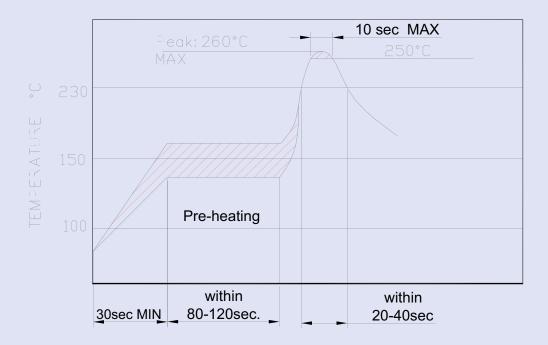
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#### **SUGGESTED REFLOW PROFILE:**

ROHS reflow profile high temperature (applies to parts manufactured after 2/1/2007 -lot# later than 07 01 xxx)



ROHS reflow profile (applies to parts manufactured before 2/1/2007 -lot# before than 07 01 xxx)

