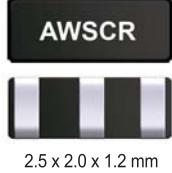


# INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MS

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

**RoHS**  
Compliant



## 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	60Ω max.
Frequency Tolerance and stability	See Table 2.1
Withstanding Voltage	50 (DC, 1 min)
Rating Voltage (1) D.C.Voltage	6 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	-55°C to +85°C
Aging Rate (Fosc)	±0.2% max. (10 years)

TABLE 2.1

Part Number (XX.XX denotes freq. in MHz)	Frequency Tolerance at 25°C	Frequency Stability at Operating Temp.	Operating Temperature	Resonant Impedance (Ω) max
AWSCR-XX.XXMSS 8.00 MHz - 50.00 MHz	±0.5%	± 0.3%	-20° to +80°C	60
AWSCR-XX.XXMSD 8.00 MHz - 50.00 MHz	±0.5%	± 0.5%	-40° to +85°C	60
AWSCR-XX.XXMSA 8.00 MHz - 50.00 MHz	±0.5%	± 0.7%	-40° to +125°C	60

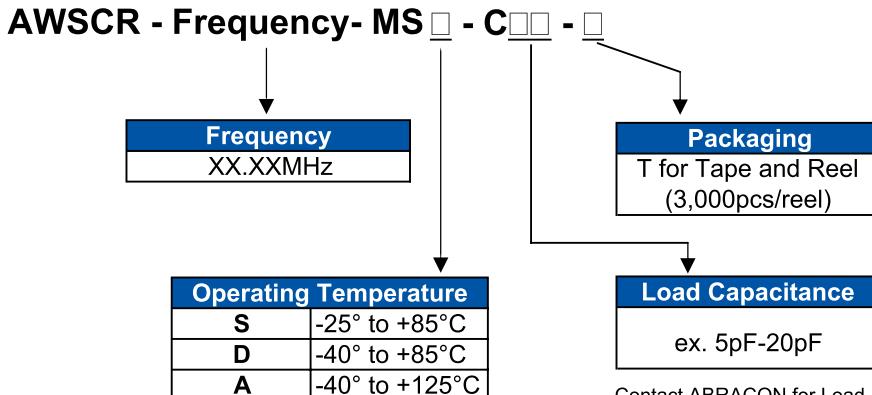
TABLE 2.2

Freq (MHz)	CI=C2 pf (±20%)
8.00~13.00	22
13.01~16.00	22
16.01~40.00	15
40.01~50.00	5

## TEST CIRCUIT:

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)



Contact ABRACON for Load Capacitance options

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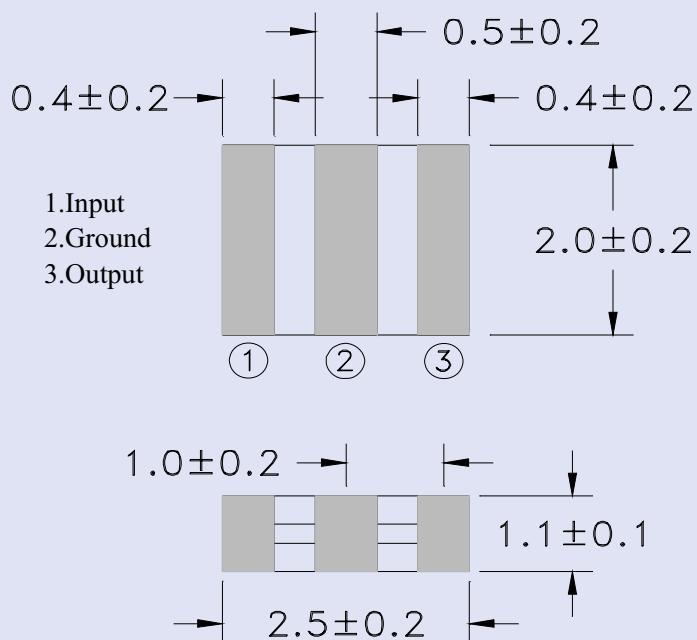
**RoHS**  
Compliant

AWSCR

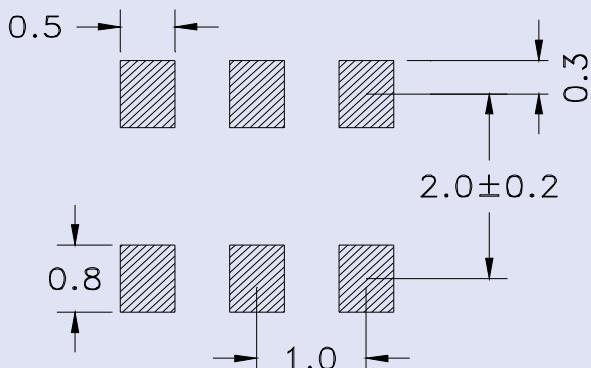


2.5 x 2.0 x 1.2 mm

## OUTLINE DRAWING:



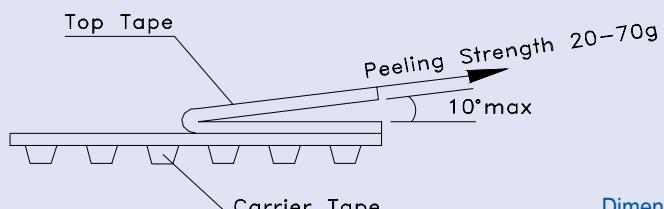
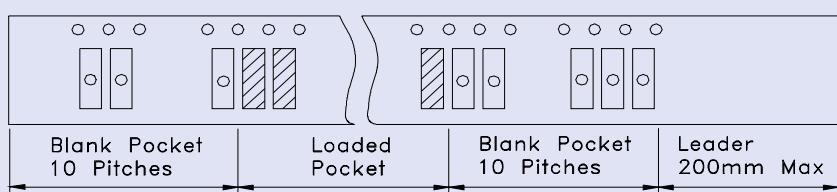
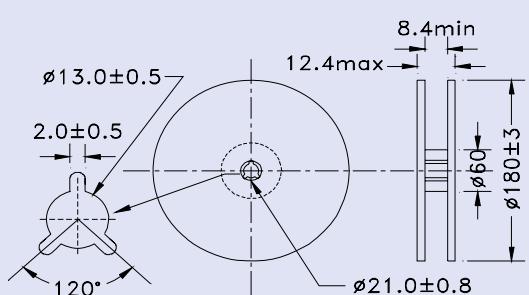
Recommended land pattern



Dimensions: mm

## TAPE & REEL:

Tape and reel 3,000pcs/reel



Dimensions: mm

# INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MS

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(exempt per RoHS 2002/95/EC Annex (7))

**RoHS**  
Compliant

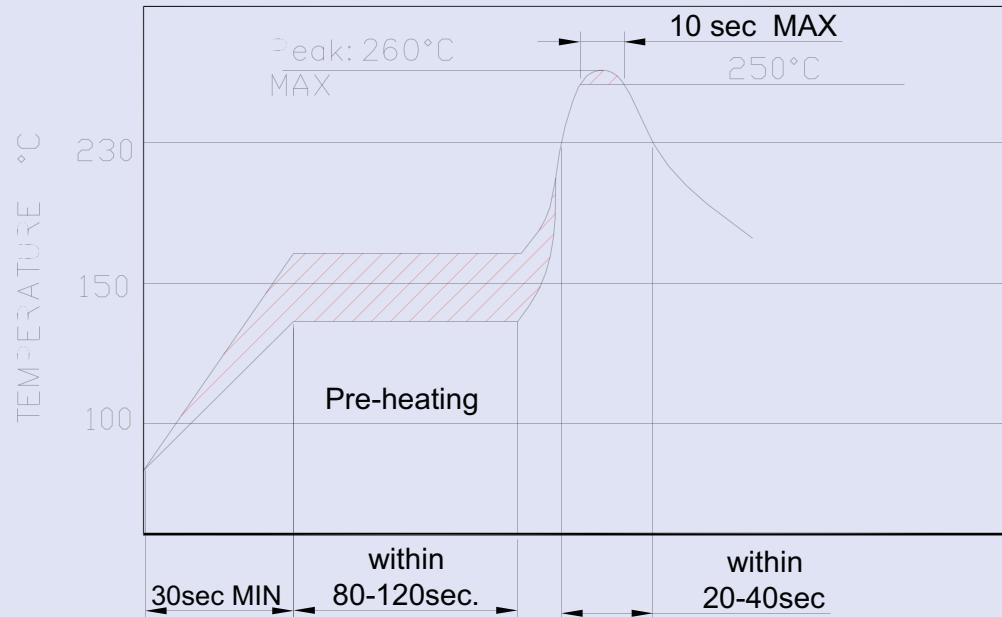
AWSCR



2.5 x 2.0 x 1.2 mm

## 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)

