

# INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR



4.7 x 4.1 x 1.2 mm

AWSCR-MG

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
Oscillation Frequency (Fosc)	2.00~8.00 MHz±0.5%
Resonant Impedance (Ro)	See Table 2.1
Frequency Tolerance and stability	See Table 2.2
Withstanding Voltage (V)	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	15pF±20% (C1=C2=pF) Standard see Option Code for options
Insulation Resistance	100MΩ min. (at 10 VDC)
Operation Temperature	-20°C to +85°C
Storage Temperature	-55°C to +85°C
Aging Rate (Fosc)	±0.3% max. (10 years)

TABLE 2.1

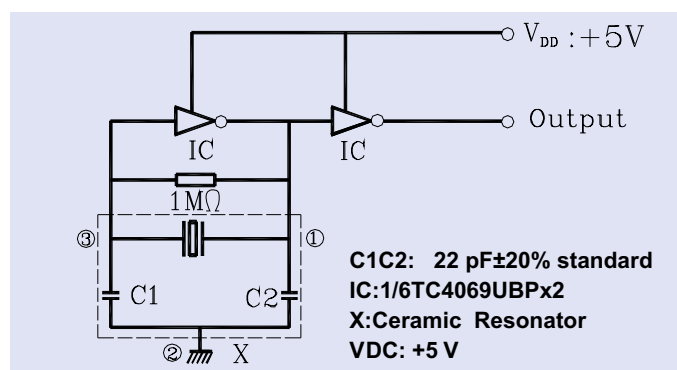
Freq (MHz)	Zr max. (ohms)
2 - 2.99	100
3.0 - 3.49	50
3.5 - 8.00	30

TABLE 2.2

Part Number (XX.XX denotes freq. in MHz)	Frequency Tolerance at 25°C	Frequency Stability at -20°C to +80°C	Aging in 10 years	Operating temperature
<b>AWSCR-XX.XXMGS</b> 2.0 MHz - 8.00 MHz	± 0.5%	± 0.3%	± 0.3%	-25° to +85°C
<b>AWSCR-XX.XXMGD</b> 2.0 MHz - 8.00 MHz	± 0.5%	± 0.3% ± 0.5% (-40C to 85C)	± 0.3%	-40° to +85°C
<b>AWSCR-XX.XXMGA</b> 2.0 MHz - 8.00 MHz	± 0.5%	± 0.3% ± 0.7% (-40C to 125C)	± 0.3%	-40° to +125°C

## TEST CIRCUIT:

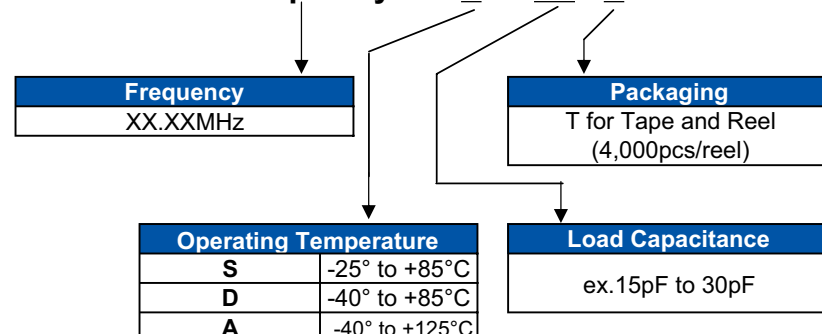
Parts shall be measured under a condition (Temp.: 20±15°C, Humidity: 65±20% R.H.) unless the standard condition (Temp: 25±3°C, Humidity: 65±5% R.H.) is regulated to measure



## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

AWSCR - Frequency- MG□ - C□□ - □



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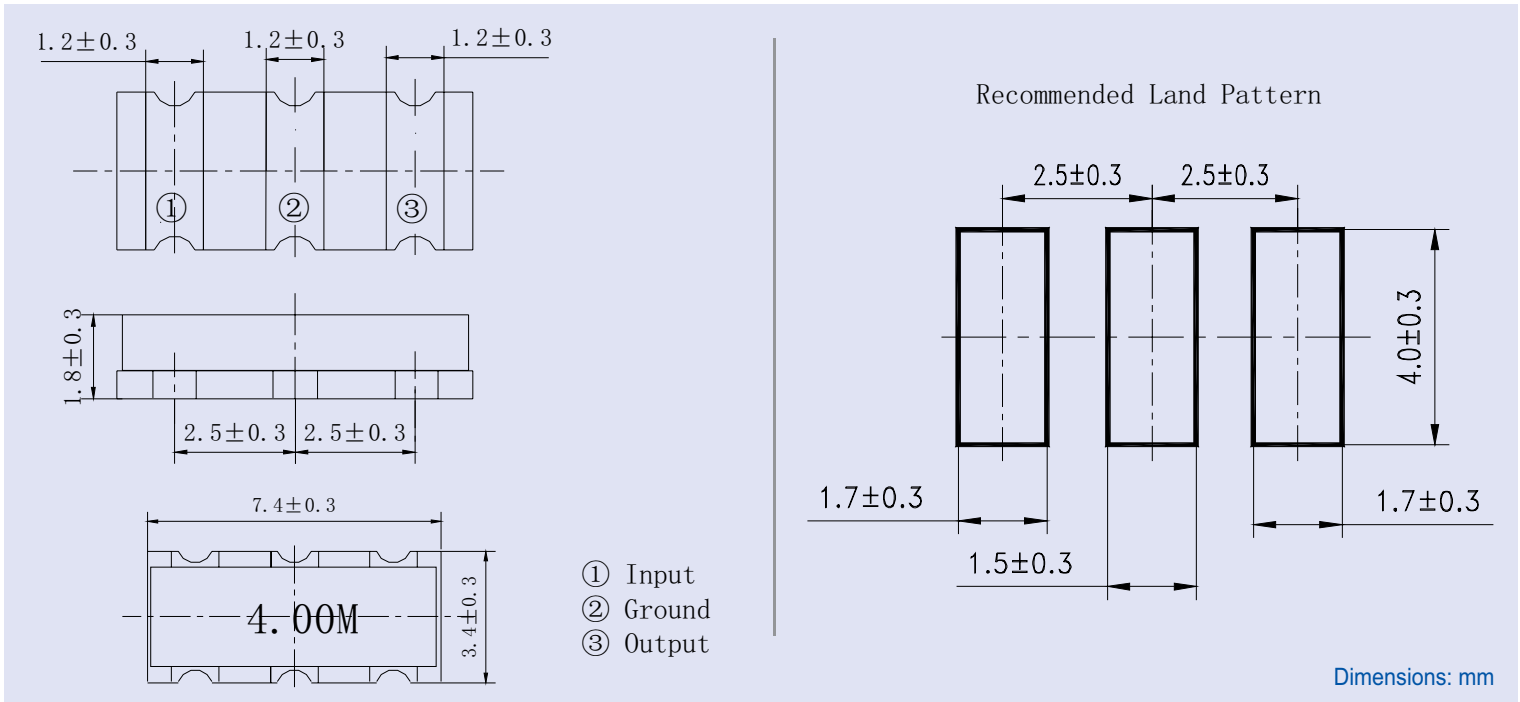
4.7 x 4.1 x 1.2 mm

AWSCR-MG

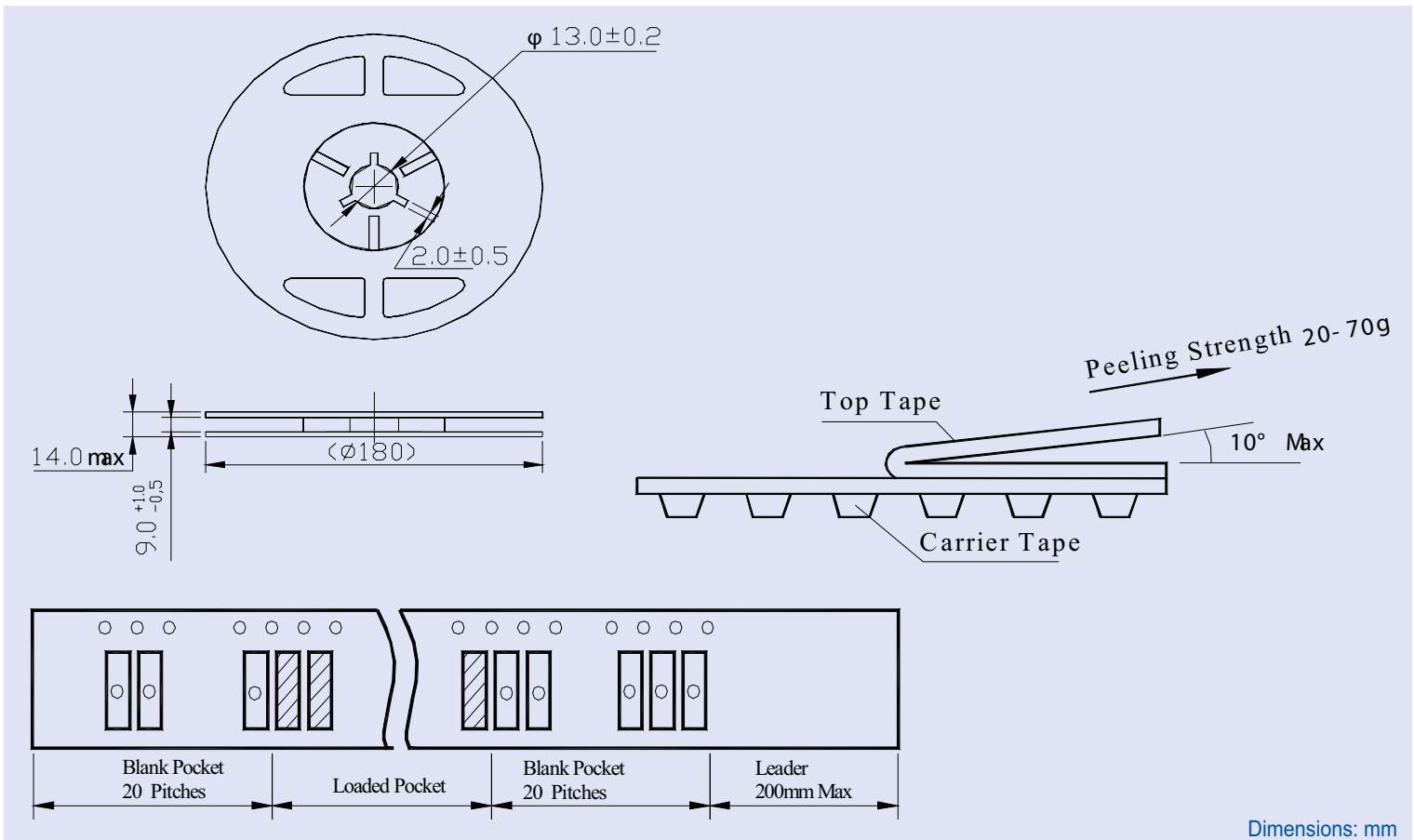
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## OUTLINE DRAWING:



## TAPE & REEL: Tape and reel 4,000pcs/reel



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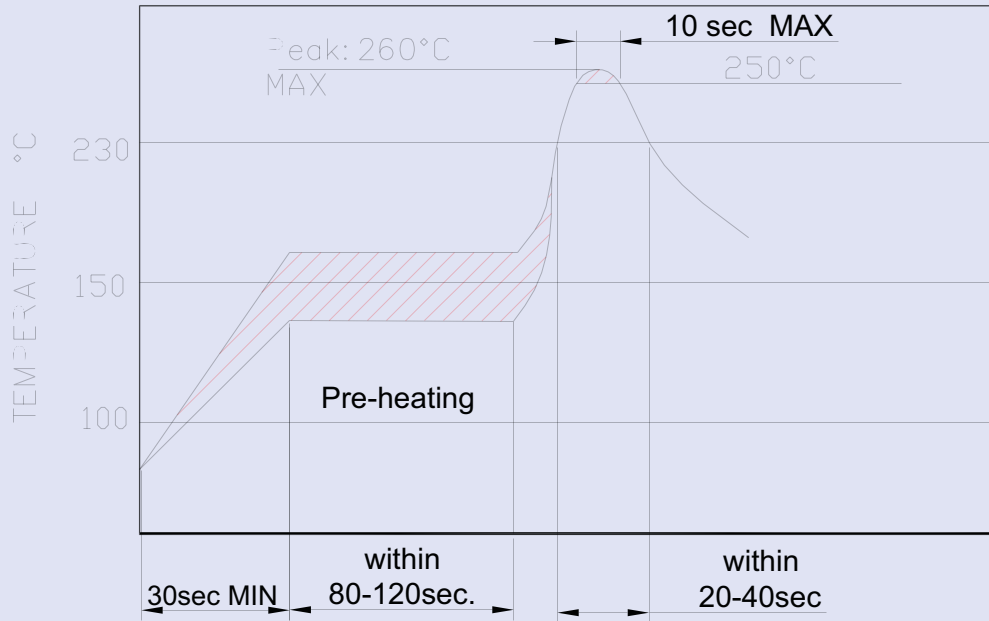
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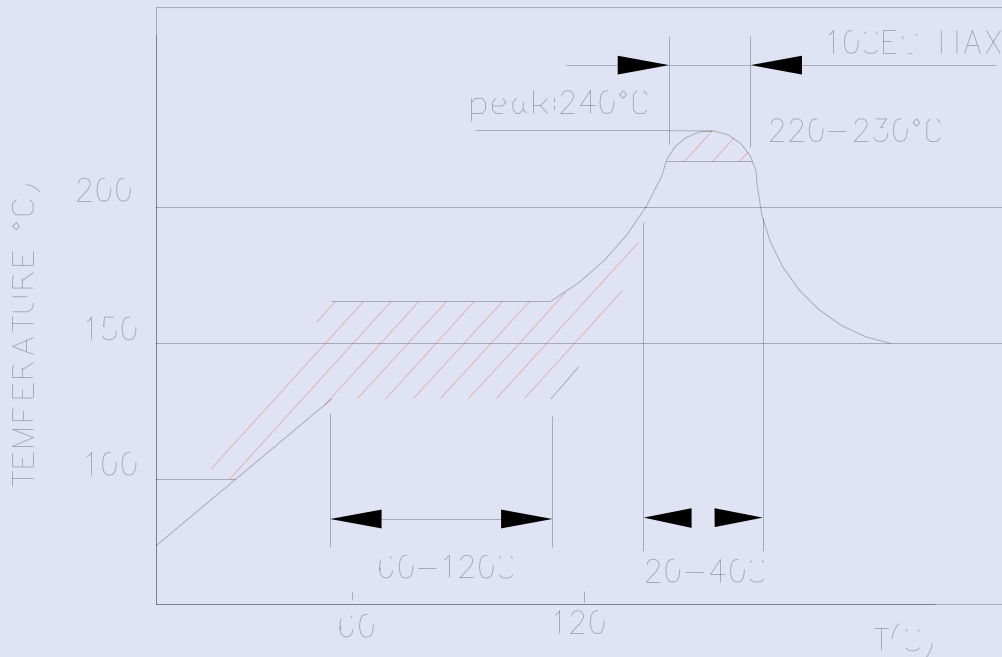
**RoHS**  
Compliant

## 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)



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