

INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MS

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

RoHS
Compliant



2.5 x 2.0 x 1.2 mm

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)

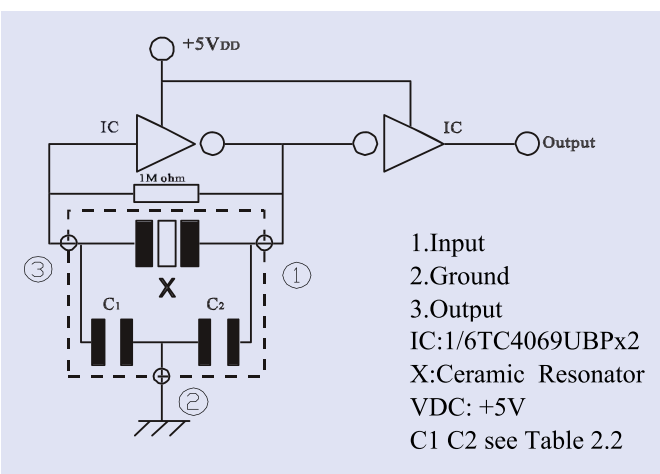
TABLE 2.1

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.XXMSSD 8.00 MHz - 50.00 MHz	±0.5%	± 0.5%	-40° to +85°C	60
AWSCR-XX.XXMSSA 8.00 MHz - 50.00 MHz	±0.5%	± 0.7%	-40° to +125°C	60

TABLE 2.2

Freq (MHz)	Cl=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]

AWSCR - Frequency- MS - C -

Frequency

XX.XXMHz

Packaging

T for Tape and Reel
(3,000pcs/reel)

Operating Temperature

S	-25° to +85°C
D	-40° to +85°C
A	-40° to +125°C

Load Capacitance

ex. 5pF-20pF

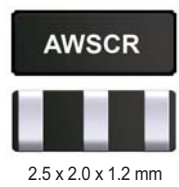
Contact ABRACON for Load
Capacitance options

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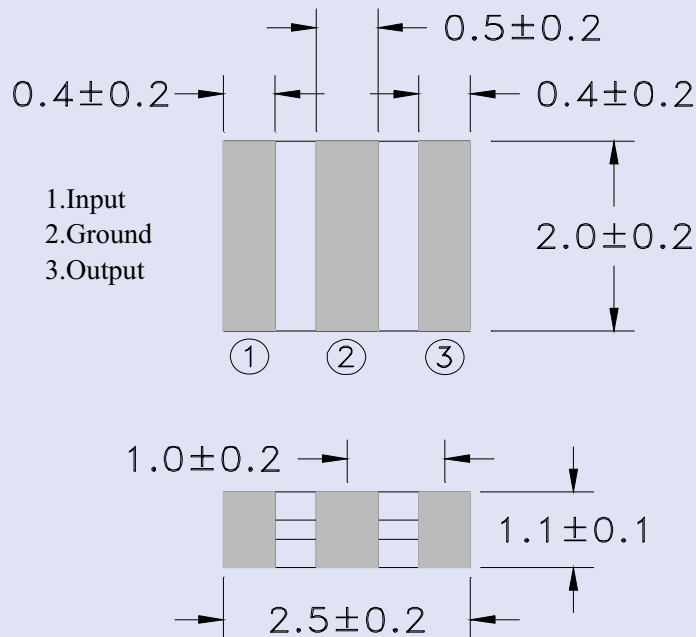
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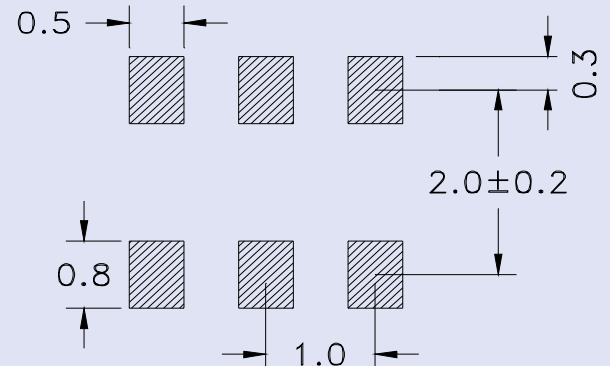
RoHS
Compliant



➤ OUTLINE DRAWING:

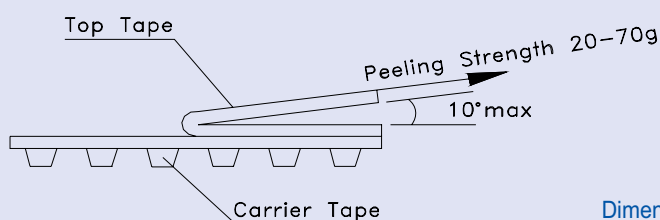
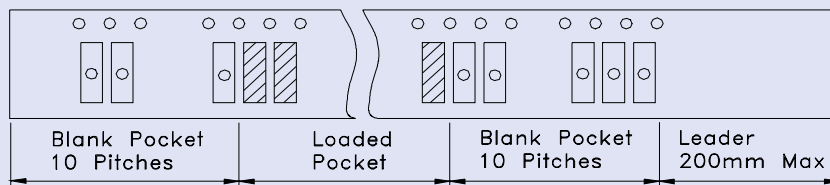
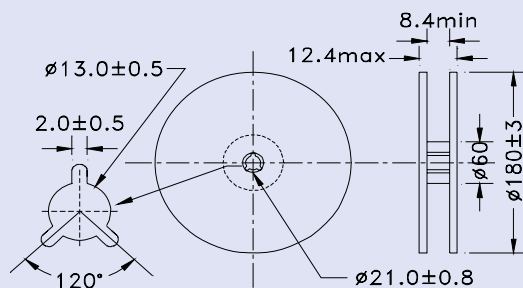


Recommended land pattern



Dimensions: mm

➤ TAPE & REEL: Tape and reel 3,000pcs/reel



Dimensions: mm

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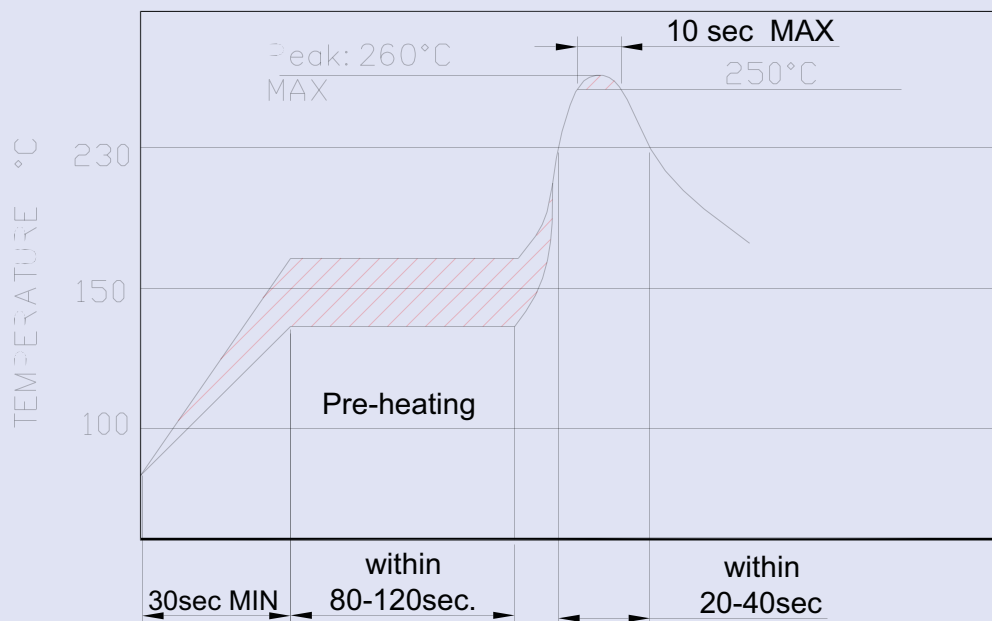


2.5 x 2.0 x 1.2 mm

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)

