

INDUSTRIAL GRADE BUILT-IN CAPACITANCE CERAMIC RESONATOR

AWSCR-MT

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

RoHS
Compliant

AWSCR



4.7 x 4.1 x 1.2 mm

FEATURES:

- Low resonant impedance
- High stability type
- Excellent environmental resistance
- Industrial grade
- Built-in load capacitance
- Reflow capable

APPLICATIONS:

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

ELECTRICAL CHARACTERISTICS:

Item	Requirement
Frequency Range	8.00MHz to 50.00MHz
Resonant Impedance	See Table 2.1
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	500M Ω min. (10V, 1min)
Operation Temperature	See Table 2.1
Storage Temperature	-55°C to +85°C
Aging Rate (Fosc)	$\pm 0.3\%$ max. (10 years)

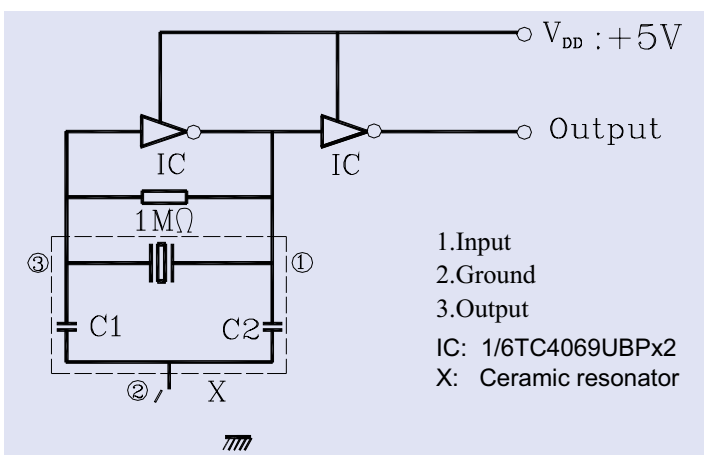
TABLE 2.2

Freq (MHz)	Cl=C2 pf ($\pm 20\%$)
8.00~13.00	22
13.01~16.00	22
16.01~40.00	15
40.01~50.00	5

TABLE 2.1

Part Number (XX.XX denotes frequency in MHz)	Frequency Tolerance at 25°C	Frequency Stability at Operating Temp.	Operating Temperature	Resonant Impedance (Ω) max
AWSCR-XX.XXMTS 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	$\pm 0.5\%$	$\pm 0.3\%$	-20° to +80°C	30 40
AWSCR-XX.XXMTD 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	$\pm 0.5\%$	$\pm 0.5\%$	-40° to +85°C	30 40
AWSCR-XX.XXMTA 8.00 MHz - 13.00 MHz 13.01 MHz - 50.00 MHz	$\pm 0.5\%$	$\pm 0.7\%$	-40° to +125°C	30 40

TEST CIRCUIT:



Parts shall be tested under the condition (Temp.: 20 $\pm$ 3°C, Humidity: 65 $\pm$ 20% R.H.) unless the standard condition; (Temp.: 25 $\pm$ 3°C, Humidity: 65 $\pm$ 10% R.H.) is regulated to measure.

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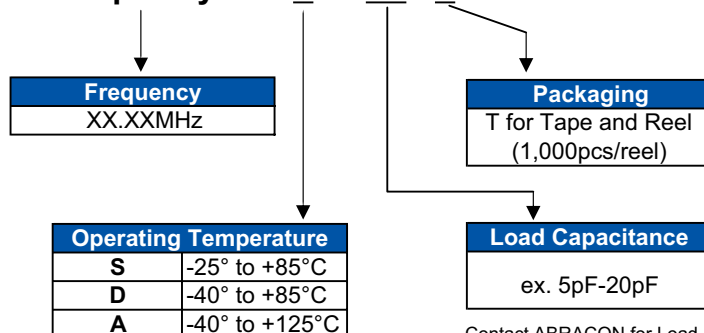


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OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

AWSCR - Frequency- MT - C -



Contact ABRACON for Load Capacitance options

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

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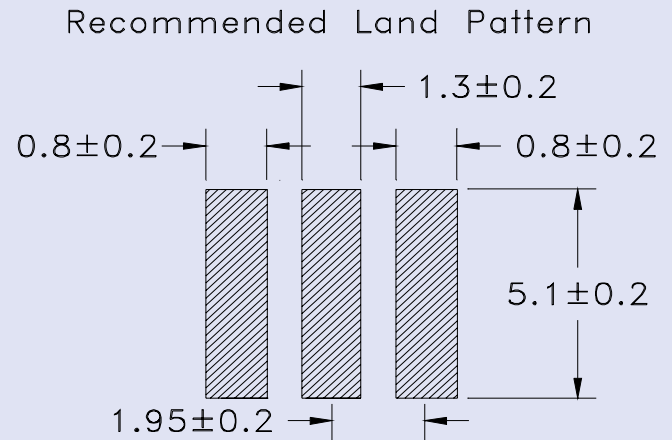
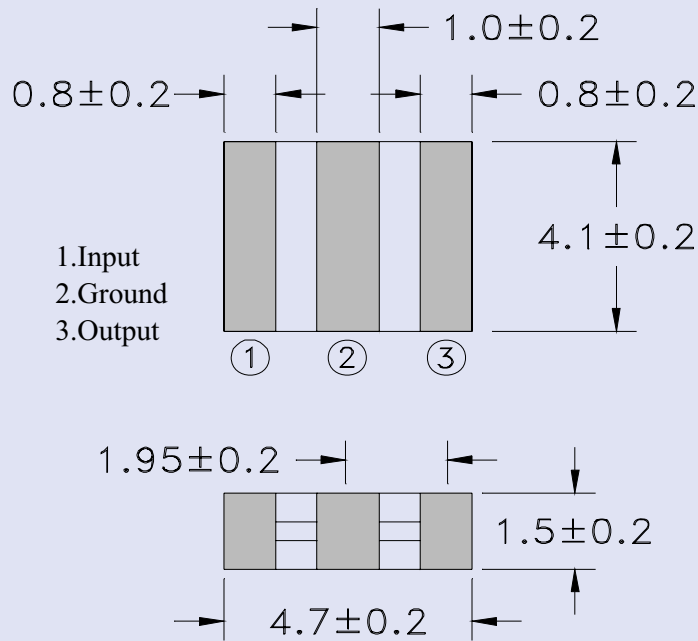
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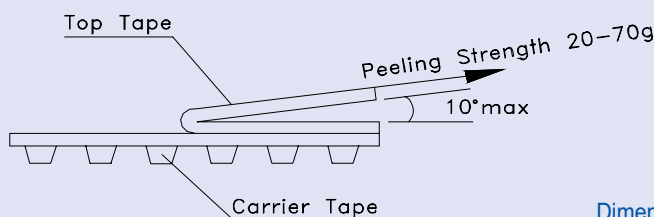
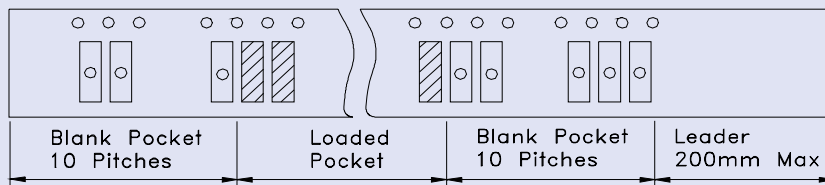
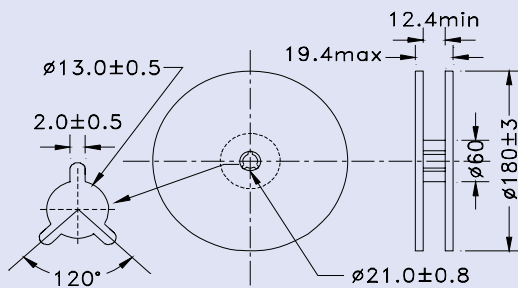
4.7 x 4.1 x 1.2 mm

➤ OUTLINE DRAWING:



Dimensions: mm

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



Dimensions: mm

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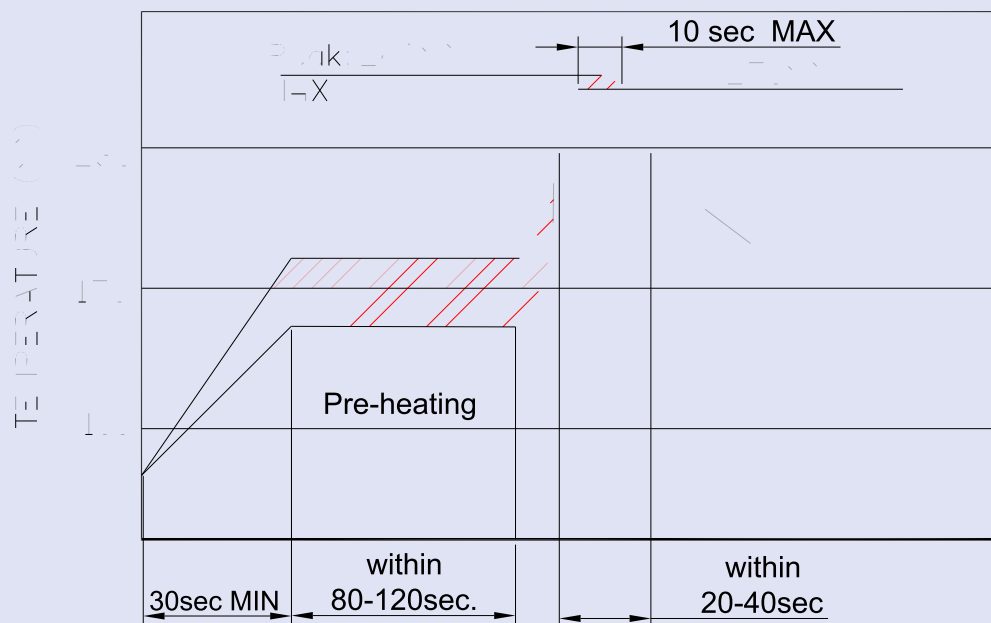


4.7 x 4.1 x 1.2 mm

➤ 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)

